Permittee: Louisiana Department of Transportation and Development

Permit Number: LAR043001

Agency Interest No: 108424

Reporting Period: January 1, 2018 - December 31, 2018



Annual Report for the

Louisiana Pollutant Discharge Elimination System (LPDES) General Permit for Discharges from Regulated Small Municipal Separate Storm Sewer Systems (MS4s)

Date: March 10, 2019

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

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Table of Contents

| List of Tableslii | |
|---|--|
| List of Acronymsiv | |
| Executive Summaryvi | |
| Introduction1 | |
| Program Evaluation4 | |
| Status of Compliance4 | |
| BMP Assessment4 | |
| Progress towards Achieving the Statutory Goal4 | |
| Measurable Goals for each of the MCMs4 | |
| Summary of Minimum Control Measures5 | |
| MCM: Public Education and Outreach on Storm Water Impacts6 | |
| MCM: Public Involvement/Participation10 | |
| MCM: Illicit Discharge Detection and Elimination12 | |
| MCM: Construction Site Storm Water Runoff Control13 | |
| MCM: Post-Construction Storm Water Management in New and Re-development15 | |
| MCM: Pollution Prevention/Good Housekeeping for Municipal Operations18 | |
| Looking Ahead: Storm Water Activities for 201824 | |
| Storm Water Management Program Changes25 | |
| Sharing Responsibility26 | |
| Appendix A: Measureable Goals Output Tables I-XV | |
| ppendix B: After the Storm Brochure & Understanding Water Brochure | |
| ppendix C: Make Changes, Be the Solution! Poster | |
| ppendix D: LPB Contracts, Broadcast Schedule and LPB Article | |
| ppendix E: Catch Basin Cover Photograph | |

Table of Contents Continued

Appendix F: Educational Materials Packets

Appendix G: Public Records Request Form

Appendix H: MS4 Outfall Survey & Illicit Discharge Visual Screening Form

Appendix I: Illicit Discharge Detection and Elimination Training Form, Employee Quiz & Wastewater

Recertification Agenda

Appendix J: Construction Inspection Forms & Construction Stromwater Field Guide

Appendix K: De-icing/Anti-icing Agents-Statewide

Appendix L: Agile Assets System

Appendix M: Hydraulics Manual Supplement

Appendix N: Standard Plan EC-01, Temporary Erosion Control Details

Appendix O: Plan in Hand Memorandum Review Form

Appendix P: SPC Questionnaire

Appendix Q: Project Delivery Manual Excerpts

Appendix R: Master SWPPP Template

List of Tables

Table I

Abbeville

Table II

Alexandria

Table III

Bastrop

Table IV

Baton Rouge

Table V

Hammond

Table VI

Houma

Table VII

Lafayette

Table VIII

Lake Charles

Table IX

Mandeville-Covington

Table X

Monroe

Table XI

Morgan City

Table XII

Natchitoches

Table XIII

New Orleans

Table XIV

Shreveport

Table XV

Slidell

List of Acronyms

AASHTO American Association of State Highways and Transportation Officials

AST Aboveground Storage Tank

BMP Best Management Practice

CSI Certified Storm Water Inspector

EA Environmental Assessment

ECU Environmental Compliance Unit

EPA Environmental Protection Agency

GIS Geographic Information Systems

LADOTD Louisiana Department of Transportation and Development

LDAF Louisiana Department of Agriculture and Forestry

LDEQ Louisiana Department of Environmental Quality

LPB Louisiana Public Broadcasting

LPDES Louisiana Pollutant Discharge Elimination System

LSWA Louisiana Solid Waste Association

LTRC Louisiana Transportation Research Center

LUSC Louisiana Urban Stormwater Coalition

MCM Minimum Control Measure

MEP Maximum Extent Practicable

MS4 Municipal Separate Storm Sewer System

NHI National Highway Institute

NOI Notice of Intent

NPDES National Pollutant Discharge Elimination System

O&M Operation and Maintenance

PE Project Engineer

PSA Public Service Announcement

SPC Spill Prevention and Control

SWMP Storm Water Management Plan

SWPPP Storm Water Pollution Prevention Plan

UA Urbanized Area

Executive Summary

It has been estimated that over 56,000 pounds of contaminants enter Louisiana waters from its highway drainage system per year. As the steward of Louisiana roads and bridges and therefore its drainage system, the Louisiana Department of Transportation and Development (LADOTD) has been proactive in combating the above alarming statistic to prevent the further deterioration of the state's surface waters. This is being accomplished through the implementation of a broad storm water management program to address discharges from its drainage system, construction sites, and facilities as mandated by the Louisiana Pollutant Discharge Elimination System General Permit for Discharges from Small Municipal Separate Storm Sewer Systems (MS4s), master general permit number LAR040000.

The permit challenges the permittee to develop best management practices (BMPs) or water pollution controls for each of the six minimum control measures listed below.

- o Public Education and Outreach on Storm Water Impacts
- o Public Involvement/Participation
- o Illicit Discharge Detection and Elimination
- o Construction Site Storm Water Runoff Control
- o Post-Construction Storm Water Management in New Development and Re-development
- o Pollution Prevention/Good Housekeeping for Municipal Operations

Typically, the BMPs whether structurally engineered devices or procedural policies, are put into practice in areas designated by the permitting authority, however the LADOTD has chosen to apply its BMPs statewide.

To remain in permit compliance, the report presented here includes major topics to address each of the six annual report requirements as stated in the permit. The LADOTD's annual report details the pollution prevention activities undertaken by the permittee during the 2018 calendar year to reduce the pollutants entering its MS4 as well as limiting the polluted discharge from its MS4 to area water bodies.

Introduction:

In 1972, polluted point source discharges to the waters of the United States were prohibited unless authorized by the National Pollutant Discharge Elimination System (NPDES) permitting system. Originally, improvements to water quality focused on limiting industrial wastewater discharges and sanitary sewerage overages. However, it became evident that poor water quality was caused by more than these two processes alone. It was later recognized that polluted storm water runoff was a major contributor to impaired surface waters.

Polluted storm water runoff is collected, transported, and ultimately discharged to nearby surface waters without treatment. Common contaminants found in runoff include litter, sediment, and oil. In response to increasing runoff concerns, the Environmental Protection Agency (EPA) and state permitting authorities were tasked with implementing a two phased approach to address storm water discharges.

Phase I of the storm water program regulated discharges from medium and large municipal separate storm sewer systems (MS4s), construction activity that disturbs 5 or more acres of land, and ten categories of industrial activity. With the addition of the Phase II Rule, the reach of the storm water program was strengthened by authorizing the discharge of storm water from small MS4s and construction sites that disturb at least 1 acre of land.

Though the storm water program was implemented in two stages, Phase I and II, the program is typically divided into three basic components, municipal, industrial, and construction. Because of the Louisiana Department of Transportation and Development (LADOTD) massive operations, it functions in all three of these areas. The LADOTD holds several storm water permits for its construction projects, facilities, and highway drainage systems.

As required by the Louisiana Department of Environmental Quality (LDEQ), the state's permitting authority; the LADOTD submitted a notice of intent (NOI) in March 2003 requesting coverage for discharges from its MS4. The LDEQ granted the LADOTD statewide permit coverage under its Louisiana Permit Discharge Elimination System (LPDES) which was modeled after the NPDES in May 2003. The LPDES permitting mechanism charged the permittee to develop a comprehensive storm water management program that was designed to reduce the amount of runoff discharged to surface waters as well as the amount of pollutants within the discharge itself to the maximum extent practicable (MEP) in each of its urbanized areas (UAs) and the regulated areas designated by the LDEQ. This was to be achieved through developing best management practices (BMPs) for each of the six required minimum control measures (MCMs). Through evaluation of measurable goals, the effectiveness of the BMPs in meeting water quality requirements can be determined.

As a small MS4 operator in fifteen areas throughout the state, the LADOTD has chosen to write its storm water management plan (SWMP) in a manner that all BMPs are implemented statewide and not just in the permitted MS4s. However, for the purpose of this report, the cities listed below will be addressed as required by the permit:

- Alexandria urbanized area
- Baton Rouge urbanized area
- o Houma urbanized area
- Lafayette urbanized area
- Lake Charles urbanized area
- Mandeville-Covington urbanized area
- Monroe urbanized area
- New Orleans urbanized area
- Shreveport urbanized area
- Slidell urbanized area
- LDEQ-designated regulated area of Abbeville
- LDEQ-designated regulated area of Bastrop
- O LDEQ-designated regulated area of Hammond
 - LDEQ-designated regulated area of Morgan City
 - LDEQ-designated regulated area of Natchitoches

The activities undertaken during the first four years following the initial authorization under the 2002 general permit include, but are not limited to, developing a construction inspection program, educating the public via TV, print, and internet, and locating outfalls within the regulated areas to create a storm sewer system map. At the permit's expiration, the permittee had not completed all of the activities scheduled during the permit term; however, it had fulfilled the primary requirement of having adopted and executed a SWMP.

The LDEQ renewed the LADOTD's MS4 permit to the permittee on March 1, 2013. As the permittee entered this third permit term, the LADOTD modified its original implementation schedule to include new goals and to reflect progress made from the previous permit term. Per the 2013 permit, the LADOTD is required to conduct at a minimum, a yearly review of the storm water management program in preparation for the annual report. During the review period, the efficacy of all BMPs is evaluated using the established measurable goals. The results of the review and any changes made to the SWMP are then presented in the annual report.

Per Part V.C. of the 2013 general permit, the annual report must address the following requirements:

- 1. The status of compliance with permit conditions, an assessment of the appropriateness of your identified best management practices, progress towards achieving the statutory goal of reducing the discharge of pollutants to the maximum extent practicable (MEP), and the measurable goals for each of the MCMs;
- 2. Results of information collected and analyzed, if any, during the reporting period, including any monitoring data used to assess the success of the program at reducing the discharge of pollutants to the MEP;
- 3. A summary of the storm water activities you plan to undertake during the next reporting cycle (including an implementation schedule):

- 4. Proposed changes to your Storm Water Management Program, including changes to any BMPs or any identified measureable goals that apply to the program elements; and
- 5. Notice that you are relying on another government entity to satisfy some of your permit obligations (if applicable).

This annual report has been prepared to comply with the above conditions.

Program Evaluation

The section entitled *Program Evaluation* will fulfill the below annual report requirement from the 2013 general permit.

The status of compliance with permit conditions, an assessment of the appropriateness of your identified best management practices (BMPs), progress towards achieving the statutory goal of reducing the discharge of pollutants to the MEP, and the measurable goals for the MCMs.

Because the above requirement addresses several elements, the permittee has chosen to separate the requirement so that each component may be fully addressed.

Status of Compliance

The LADOTD's storm water management program was reviewed in its entirety and then compared to the mandates set forth in the 2013 general permit. After completing the required self-assessment, the LADOTD has determined that additional attention is needed in the following areas to sufficiently achieve permit compliance;

Part IV. D. 3

Illicit Discharge Detection and Elimination

BMP Assessment

During the annual evaluation of the SWMP, data is collected and analyzed to yield performance indicators. A performance indicator is a measurement of the effectiveness of the BMP relative to the MCM. It is used to determine if MCM improvements are needed. MCM improvements are achieved through the elimination and addition of BMPs. As a result of the self-assessment for the 2018 calendar year, the permittee has determined the BMPs developed satisfactorily address the required MCMs.

Progress towards Achieving the Statutory Goal

Per permit requirements, the LADOTD is mandated to reduce pollutants in storm water runoff to the MEP through the use of various BMPs. BMP efficacy is determined through data collection and evaluation. Additionally, the permittee conducts research on emerging technologies to determine the usefulness of new products and to ascertain if its value will be beneficial for future use. Because of continuous research efforts, the LADOTD remains current in its approach to handling polluted runoff. The permittee will continue to make significant strides in reducing polluted discharge to the MEP.

Measurable Goals for each of the MCMs

Measurable goals are quantifiable measurements that indicate effort, i.e. website traffic, miles swept, etc. This data tracked over time used in conjunction with performance indicators will quantitatively indicate the effectiveness of each BMP. Identification of productive versus non-productive BMPs allows the permittee to make necessary changes to strengthen its storm water management program. The measurable goals developed for each MCM are detailed in the section entitled Summary of Minimum Control Measures.

Summary of Minimum Control Measures

The section entitled *Summary of Minimum Control Measures* will fulfill the below annual report requirement from the 2013 general permit.

Results of information collected and analyzed, if any, during the reporting period, including any monitoring data used to assess the success of the program at reducing the discharge of pollutants to the MEP.

The results presented here represent the cumulative efforts of the permittee in all fifteen permitted areas, however to obtain area specific information refer to Appendix A. A measurable goals output table has been created for each urbanized and regulated area listing the data collected for each BMP for the 2018 calendar year. The activities for each minimum control measure are summarized below.

MCM: Public Education and Outreach on Storm Water Impacts

The permittee has developed six BMPs with a corresponding measureable goal to achieve compliance with the above MCM, public education and outreach of storm water impacts. The results, if any, of each BMP are presented below.

BMP: Flyers and Brochures

BMP Description: Design and publish flyers and/or brochures for the purpose of educating the public on various storm water related topics.

Summary of Results:

The permittee reproduced the brochure developed by the EPA entitled, *After the Storm*. The brochure provides an overview of the various sources of storm water pollution, the effect of contaminants on water bodies, and suggestions to the reader on how to prevent polluted runoff. An example of the brochure used by the LADOTD is provided in Appendix B. During 2018, the brochures were distributed statewide at various LADOTD properties and at the Louisiana Department of Culture, Recreation and Tourism Welcome Centers. The location and number of brochures disseminated in each permitted area is provided below.

| Regulated Area | Location | I Our til |
|------------------|----------------------------------|-----------|
| Lafayette, LA | Atchafalaya Rest Area | Quantity |
| Lake Charles, LA | I-10 Eastbound Welcome Center | 25 |
| Houma, LA | LADOTD Customer Service To The | 25 |
| Choudrant, LA | LADOTD Customer Service for Toll | |
| Choudrant, LA | Tremont West Bound Rest Area | 25 |
| | Tremont East Bound Rest Area | 25 |
| | | |

A second brochure, *Understanding Stormwater* was developed for distribution. The brochure provides a general overview of what storm water pollution is, its sources, and the problems associated with it. The brochure further details pollution prevention tips while traveling, and ways to get involved such as volunteering in our "Adopt-A Road Program" and LADOTD contact information to report any illegal activities. An example of the brochure is provided in Appendix B.

In addition to the brochures, the LDEQ designed poster titled *Make Changes, Be the Solution!* was displayed at 3 LADOTD maintenance facilities within the Baton Rouge urbanized area. The poster communicates to the reader, simple tasks that can assist in limiting contaminants in storm water discharges. The use of these locations was two-fold in that it provided an educational opportunity to local residents and the permittee's employees as well. An example of the poster in use is provided in Appendix C.

BMP: Storm Water Quality Website

BMP Description: Design and maintain a website to educate individuals on the impact of storm water runoff.

Summary of Results:

The permittee has developed a website completely dedicated to the topic of storm water. The topics covered on the website include the following:

- o An MS4 Defined
- Examples of BMPs
- Previously submitted Annual Reports
- Examples of Illicit Discharges
- A Mechanism to Report an Illicit Discharge
- Urbanized Area Maps
- o External Links to LADOTD Adopt-a-Road program, LDEQ website, and EPA website
- Contact LADOTD/Feedback Mechanism

As of November 14, 2006, the traffic to the website has been continuously monitored and to date has had 6,903 visitors. Of the 6,903 total views, 354 occurred in 2018. This represents a 2% decrease in visits in comparison to the previous reporting year. The website can be found at the following address: http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/Materials_Lab/MS4/Pages/default.asp

BMP: Public Service Announcements

BMP Description: Develop and broadcast a storm water related public service announcement (PSA).

Summary of Results:

The permittee has produced a 30 second PSA for television focusing on the impact of runoff from Louisiana's highway system. The PSA also provides tips to the listener on how to prevent storm water related pollution. The verbiage of the PSA is given below:

Each year more than 56,000 pounds of trash, litter, and other contaminants from Louisiana's highways end up in our lakes, streams and scenic waterways. You can help prevent water pollution by keeping our roads clean, repair all fluid leaks in your vehicle, bag your trash and place it in designated trash bins, and report illegal dumping. Clean highways today, mean cleaner water tomorrow.

The permittee has contracted with the Louisiana Public Broadcasting (LPB) station to broadcast the above LADOTD developed PSA. Because the permittee renews its contract annually with LPB during midyear, two separate contracts cover the 2018 calendar year. The first having a contract term June 30, 2017 to June 29, 2018 and the second and current contract term is from June 30, 2018 to June 29, 2019. The contract stipulates that the PSA will be aired a minimum of 40 times during each contract term. The PSA

| Page 7 | |
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| | |

had 99 broadcasts on the LPB station between 01/01/2018 to 12/31/2018. A copy of both contracts and the broadcast schedule are provided in Appendix D.

Additionally, the contract between the permittee and LPB provides the LADOTD an opportunity to be featured in the LPB *Visions* magazine. The LADOTD ran a 276-word article titled, A Clearer Picture: Stormwater. The article appeared in the August 2018 *Visions* publication, Volume 42, Issue 8, page 30. A copy of the article can be found in Appendix D.

BMP: Impacts of Illegal Dumping and Littering

BMP Description: Develop and distribute various public education materials that focus on illegal dumping.

Summary of Results:

The permittee uses a variety of methods to publicize the impact of illegal dumping and littering. Prints, television ads, as well as electronic media are used by the LADOTD to inform the public of the sources and effects of dumping and littering on area surface waters. The statewide circulation of the *After the Storm* brochure, the display of the Make Changes, Be the Solution! poster, the PSA developed for television broadcast, which also has been made available for online viewing, and the LADOTD developed website, all include verbiage on both subjects. In addition, the permittee has taken the added step to have its catch basin covers cast with the following phrase:

Dump No Waste

Drains to Waterways

Please refer to Appendix E to view a photograph of a catch basin cover currently in use by the department.

BMP: Public Education on Construction Activities and New Development Activities

BMP Description: Develop and distribute various public education materials that inform the public of the impact of construction on area waters.

Summary of Results:

The impact of construction activity on water quality and the steps an individual can take during construction to limit erosion and sedimentation is included in the *After the Storm* brochure. Refer to Appendix B for an example brochure used by the department.

BMP: Education of School Children on the Importance of Water Quality

BMP Description: Develop and distribute educational materials related to storm water at LADOTD rest areas.

Summary of Results:

In order to educate small children of the importance of keeping our water clean, the LADOTD has received permission from the Metropolitan North Georgia Water Planning District to print and distribute an activity

| booklet titled, "Be a Solution to Water Pollution". The activity booklet was distributed in a packet including crayons, stickers, and a book marker, Clean Water, Everybody's business. Packets were distributed at LADOTD rest areas and tourist centers statewide. Refer to Appendix F for an example of packet contents. | | | | |
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MCM: Public Involvement/Participation

The permittee has developed four BMPs with a corresponding measurable goal to ensure compliance with the above MCM, public involvement/participation. The results, if any, of each BMP are presented below.

BMP: Adopt-a-Road Program

BMP Description: Inform the public of volunteer opportunities available through the LADOTD sponsored Adopt-a-Road Program.

Summary of Results:

Various organizations contract with the LADOTD to voluntarily collect litter and other debris from state and federal right-of-ways (ROWs). The permittee has established a website dedicated to the recruitment of volunteer organizations by providing general information as well as contact information for the Adopt-a-Road Program. A link to the Adopt-a-Road website has also been established on the permittee's storm water website. The Adopt-a-Road website can be found at the following address: http://www.sp.dotd.la.gov/Inside LaDOTD/Divisions/Operations/adopt-a-road/Pages/default.aspx

The number of active groups that adopted highway segments within the permittee's urbanized areas or LDEQ-designated areas totaled 105 in 2018. This accounts for a total of 139.95 miles of adopted highway and 20.97 cubic yards of litter collected. Refer to the Measurable Goals Output table in Appendix A, 440-04, for area specifics.

BMP: Storm Water Management Program Document Review

BMP Description: Documents associated with the LADOTD's storm water management program will be made available on the department's storm water website for public review and comment.

Summary of Results:

The report prepared annually for submission to the LDEQ is available for review and comment on the permittee's website. The most recent and previous annual reports can be found at the following address: http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/Materials_Lab/MS4/Pages/AnnualReports.aspx. In 2018, the permittee did not receive any comments on the annual reports submitted to the LDEQ.

BMP: Public Information Requests

BMP Description: Respond and provide the necessary documents when appropriate, for information requests from the public.

Summary of Results:

A pdf copy of the *Public Records Request* form is available on the LADOTD website. The form along with instructions for its completion is available at the following address:

http://wwwsp.dotd.la.gov/Inside LaDOTD/Divisions/Administration/Documents/Public%20Records%20 Request%20Form.pdf. Refer to Appendix G, to view a *Public Records Request* form.

BMP: Reporting System for Public

BMP Description: Establish a system to foster communication between the LADOTD and the public.

Summary of Results:

The permittee has provided the public with a feedback mechanism via the LADOTD storm water website. Using the Contact Us/Report an Illicit Discharge page, an individual can ask questions, report suspected illicit discharges, inform the permittee of illegal dump sites, or provide comments on the storm water program to the permittee. Any questions or comments received are answered and if necessary investigated by the LADOTD-Environmental Compliance Unit (ECU) personnel and then referred to the proper authority for action. The Contact Us page can be found at the following web address: http://www.sp.dotd.la.gov/Inside_LaDOTD/Pages/Contact_Us.aspx. No comments were received in 2018.

MCM: Illicit Discharge Detection and Elimination

The permittee has developed three BMP's with a corresponding measureable goal to achieve compliance with the above MCM, illicit discharge detection and elimination. The results, if any, of each BMP are presented below.

BMP: Maintain the MS4 and Outfall Inventory

BMP Description: Update the MS4 outfall map as needed.

Summary of Results:

The permittee has completed a storm sewer map using GIS technology for LDEQ designated areas and urbanized areas showing outfall locations and receiving waters. During 2019, the ECU will continue to improve maps on an as needed basis.

BMP: MS4 Outfall Screening

BMP Description: Conduct a visual inspection of MS4 outfalls annually to identify the presence of dry weather discharges.

Summary of Results:

Because the permittee has responsibilities in fifteen areas in the state, the implementation schedule developed by the LADOTD mandated that 10% of all MS4 outfalls be inspected annually. Screenings are done to identify outfalls with illicit discharges and investigate the source of those discharges. A MS4 outfall survey and an Illicit Discharge Visual Screening form were developed to assist us in this effort. Although we continue to strive towards our self-imposed goal, we have not reached the targeted percentage. We are hopeful with the full use of the GPS units and possible re-organizational changes, we will meet our goal. However, considering LADOTD has over 2,000 identified outfalls within its regulated MS4, we may need to reevaluate our goals. Please refer to Appendix H, to view both documents. Finally, no illicit discharge was reported through the LADOTD public website.

BMP: Illicit Discharge Employee Training

BMP Description: Educate personnel using the developed training aids for illicit discharge identification.

Summary of Results:

The LADOTD purchased training material from Excal Visual to assist with training our personnel in identifying illicit discharge. The training material consisted of a video titled, "IDDE: A Grate Concern, employee quiz, a trainer's guide, and pocket references. The training was presented in the annual Waste Water Recertification on August 29th to 34 participants statewide. Future plans will include continuing education of targeted sections in LADOTD. Refer to Appendix I, for an example of the Acknowledgement of Training Form, Employee Quiz and the Wastewater Recertification Agenda.

MCM: Construction Site Storm Water Runoff Control

The permittee has developed five BMPs with a corresponding measureable goal to achieve compliance with the above MCM, construction site storm water runoff control. The results, if any, of each BMP are presented below.

BMP: Construction Inspection Procedures

BMP Description: Develop written construction inspection procedures and forms.

Summary of Results:

Two inspection forms are in use by the permittee. The first is a one page LADOTD document, entitled *Inspection and Maintenance Report Form*. This form is used by the contractor during construction to satisfy the mandatory inspection schedule as required in the general storm water construction permit, LAR 600000. Used primarily to document structural BMP deficiencies, the form identifies the station number of areas of concern.

The second form, entitled *LADOTD Storm Water Construction Site Inspection Report*, is a three-page document used by the certified storm water inspectors (CSIs) of the LADOTD-ECU. This form mirrors the forms used by regulatory agencies by documenting not only structural BMP deficiencies but also procedural insufficiencies, corrective action log errors, storm water pollution prevention plan (SWPPP) deficiencies, etc. Examples of both forms are provided in Appendix J.

Instead of developing a field guide, the ECU will use the Construction Stormwater Field Guide by AASHTO. This guide provides information on pollution prevention/housekeeping, sediment control, erosion control and temporary drainage management. It also exhibits pictures of BMPs that are properly installed and maintained along with others that are not adequately maintained. An example of the field guide is provided in Appendix J.

BMP: Construction Storm Water Pollution Prevention Plan (SWPPP) Review

BMP Description: Develop procedures to require contractors to submit a site specific storm water pollution prevention plan for permittee review and approval.

Summary of Results

One storm water pollution prevention plan(SWPPP) has been developed that serves as a master template for all construction projects or sites covered by the permit. The purpose of the master template SWPPP is to have uniform, standardized structure for all DOTD construction projects. Site specific SWPPPs, however, are subsequently developed for each project to ensure adequacy and permit compliance. SWPPPs are reviewed for permit compliance during the inspections conducted by the CSIs. During a SWPPP review, deficiencies are noted and recommendations provided to strengthen the document and therefore improve the permittee's ability to reduce sediment laden runoff from its construction sites. In

2018, a total of 32 SWPPPs were reviewed statewide. A portion of the master SWPPP template is provided in Appendix R.

BMP: Construction Site Inspection

BMP Description: Inspect LADOTD construction sites that disturb at a minimum of one acre of soil and can potentially discharge runoff to an MS4.

Summary of Results:

In 2018, the permittee identified 60 construction projects within the boundaries of the fifteen permitted areas that disturbed at a minimum of 1 acre of soil. A records review determined that each project was inspected pursuant to the requirements set forth in the LDEQ storm water construction permits. Inspection forms along with other pertinent construction documents are housed at the office of the assigned project engineer.

BMP: Construction Community Education

BMP Description: Provide educational opportunities for departmental construction personnel.

Summary of Results:

The permittee in conjunction with LTRC are planning the implementation of a stormwater training course. This course will cover but is not limited to, permit regulations, pollution prevention principles, construction site inspections, erosion and sediment control. The goal is to offer the course to construction personnel and contractors.

BMP: Construction Related Public Reporting

BMP Description: Provide the public with a mechanism to report concerns regarding the LADOTD construction sites.

Summary of Results:

The permittee has a feedback mechanism on its storm water website for public use. No comments were received by the permittee during the 2018 calendar year.

In maintaining compliance with LDEQ storm water construction permit, LAR 600000, a notice is posted near the entrance of each of the LADOTD's construction sites. The notice provides interested parties with the information needed to comment on the construction project. Per permit requirements, the notices contain the permit number, a brief project description, and the point of contact for the project.

MCM: Post-Construction Storm Water Management in New Development and Re-development

The permittee has developed four BMPs with a corresponding measureable goal to achieve compliance with the above MCM, post construction storm water management in new development and redevelopment. The results, if any, of each BMP are presented below.

BMP: New Development and Re-development Plans Review

BMP Description: Review construction plans to assess post-construction runoff.

Summary of Results:

All construction projects are subject to a formal review by several sections at various stages of the plan development process. Phase reviews are held at the 30%, 60%, 90% and plan in hand (95%) completion stages for preliminary plans. Final plans are reviewed at the 60% and 95% completion stages.

Among its many responsibilities, the LADOTD-Hydraulics section has been charged with the task of drainage design and erosion/sediment control plan development and review. In response, the permittee's Hydraulics section has developed manuals to address these functions. The *Hydraulics Manual* provides information on design criteria and procedures in various area types. Specifically, urban drainage design considerations are addressed in Chapter II *Urban Drainage Design* of the *Hydraulics Manual*. A copy of the manual is available on the permittee's website at the following address: http://wwwsp.dotd.la.gov/Inside LaDOTD/Divisions/Engineering/Public Works/Hydraulics/Documents/Hydraulics%20Manual.pdf

Additionally, the LADOTD-Hydraulics section has developed a supplement to the *Hydraulics Manual* entitled *Plan Checking and Design Procedures for Erosion and Sediment Control*. This document provides guidance with regards to both preliminary and final design plan checks. A copy of the narrative portion of the *Hydraulics Manual* supplement, *Plan Checking and Design Procedures for Erosion and Sediment Control* has been provided in Appendix M. A complete copy of the manual can be found on the permittee's website at the following address:

http://wwwsp.dotd.la.gov/Inside LaDOTD/Divisions/Engineering/Road Design/Erosion%20Control%20 Guidelines/05%20Plan%20Checking%20Guidelines%20Document%20(6%20Pages).pdf

To ensure proper installation of erosion control devices, the Hydraulics section has developed standard plan, EC-01, Temporary Erosion Control Details. EC-01 provides installation information on the erosion control devices approved for use on LADOTD construction projects and is attached to all construction plans. EC-01 and an example of the erosion and sediment control symbology used on the permittee's construction plans is provided in Appendix N. The standard plan, EC-01 is also available at http://wwwsp.dotd.la.gov/inside_LaDOTD/Divisions/Engineering/Road_Design/Erosion%20Control%20 Guidelines/00%20La%20DOTD%20Erosion%20Control%20Guidelines%20(Full%20Text).pdf.

Construction plans are developed to indicate where specified erosion controls will be placed, how they are to be installed, and during which phase of construction. Because the permittee's construction plans are designed with the intent of future modification during subsequent reviews, plans may be altered

several times to minimize environmental impacts from erosion and sedimentation. During the plan in hand review, the LADOTD-Hydraulics section compares the plans with field conditions to assess existing or potential erosion problems and verify the future location of temporary and permanent erosion/sediment controls. A copy of the *Plan in Hand Memorandum Review* form can be found in Appendix O.

BMP: New Development and Re-development Project Inspection

BMP Description: Implement inspection program of projects using procedures developed to ensure conformance with post construction guidelines.

Summary of Results:

The Project Delivery Manual addresses operational performance post construction. The manual details the six stages of a project and assigns responsibility for each stage. The final stage, Systems Operation and Performance, is put into action once the project has been completed. Project system performance is measured through data collection and evaluation to determine if design procedures need to be modified to improve maintenance and operation of future projects. Of the many tasks completed during this stage, one is to ensure post construction environmental commitments are in compliance. Examples of post construction environmental commitments include post construction erosion controls and water quality The responsibility matrix and section entitled, Compliance with Post Construction Environmental Commitments from Chapter 10: Stage 6 Systems Operating and Performance of the Project Delivery Manual are provided in Appendix Q for review. A copy of the Project Delivery Manual in entirety is available on the permittee's website at the following http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/Project_Management/Project%20Deli very%20Manual/LA%20DOTD%20Project%20Delivery%20Manual%202013%20-%20FINAL.pdf.

BMP: Protection of Sensitive and/or Impaired Water Bodies

BMP Description: Implement appropriate post construction pollution control strategies for MS4 areas that discharge to LDEQ Section 303(d) List of Impaired Waters.

Summary of Results:

The ECU teamed with the department's GIS section and identified outfalls within each 303 (d) Impaired Water Body.

Prior to plan development, an environmental assessment (EA) is done for the proposed area of development. The EA provides the permittee with information regarding the topography, area structures, etc. If clearance is granted, the results of the EA are considered during plan development. As such, all required environmental permits are obtained and strict adherence to permit regulations is followed. Section 3.6 of Chapter 3 Design Controls of the Road Design Manual detail the environmental considerations to take in account while developing the construction plan with regard to post construction operation. The manual is available at the permittee's website at the following address:

Road Design Manual

http://wwwsp.dotd.la.gov/Inside LaDOTD/Divisions/Engineering/Road Design/Pages/Road-Design-Manual.aspx

BMP: Participation in Local Watershed Planning and Modeling

BMP Description: Participate in watershed meetings to stay abreast of current surface water quality issues and regulatory policy changes.

Summary of Results:

No watershed meetings were attended in 2018.

MCM: Pollution Prevention/Good Housekeeping for Municipal Operations

The Louisiana Department of Transportation and Development has created an *Activity Guide* for the Maintenance Division. The purpose of the manual is to provide personnel with a standard set of procedures for common practices used in the maintenance and preservation of highway surfaces, roadsides, structures, and traffic control devices. Each maintenance activity is assigned a five-digit activity code. This code is then used to track the type of maintenance activity performed at specific locations to yield numerical accomplishments. The permittee uses the accomplishments from this system as the measureable goals for a number of the BMPs addressed in this section.

The permittee has developed thirteen BMPs with a corresponding measurable goal to achieve compliance with the above MCM, prevention/good housekeeping for municipal operations. The results, if any, of each BMP are presented below.

BMP: Street Sweeping

BMP Description: Removal of sediment and other debris from MS4 roadways to reduce contaminant levels in street runoff to MS4s.

Summary of Results:

The mechanical cleaning of highway surfaces is listed in the LADOTD's *Activity Guide* as Sweeper Cleaning, 540-03. In 2018, 10,512.91 miles were swept within the regulated areas. For area specifics, refer to Appendix A.

BMP: Litter Collection

BMP Description: Removal of litter and debris from MS4 right-of ways to reduce floatables in runoff discharge, improve aesthetics, and create safe mowing conditions for departmental personnel.

Summary of Results:

The accomplishments from the following four maintenance activities are used to obtain the measurable goals for the litter collection BMP:

- o Litter Cleaning of Roadside, 630-10
- o Pick Up of Litter (Adopt-A-Road), 440-04
- Pick Up of Inmate Litter, 440-05
- Pick Up of Sheriff's Litter, 440-06

A total of 17,134.67 cubic yards of liter was collected from permitted areas. For area specifics, refer to Appendix A.

BMP: Herbicide Application

BMP Description: Ensure the application of herbicides is done in accordance to manufacturer specification by licensed applicators.

Summary of Results:

The spraying of undesirable vegetation that can cause damage to structures or obstruct drainage is performed by the 76 licensed herbicide applicators the permittee has on staff. Each herbicide applicator is licensed through the Louisiana Department of Agriculture and Forestry (LDAF). In addition to the LADF requirements, the LADOTD necessitates that each licensed applicator obtain continuing education hours through the department annually.

The accomplishments from the following two maintenance activities are used to obtain the measurable goals for the herbicide application BMP:

- Herbicide Application-Hand Method, 440-12
- Herbicide Application-Machine Method, 440-13

Herbicide application staff manually applied herbicides to 9,571.5 locations and mechanically sprayed 24,340.02 acres in the LADOTD urbanized and regulated areas. For, area specifics refer to Appendix A.

BMP: Roadside Drainage Maintenance

BMP Description: Non-functioning drainage structures are cleaned, repaired or replaced to improve drainage thereby reducing sediment and floatable discharges and providing safe travel on roadways.

Summary of Results:

The accomplishments from the following six maintenance activities are used to obtain the measurable goals for the roadside drainage maintenance BMP:

- Clean and Maintain Drainage Structures, 450-01
- Drainage Structure Repair, 450-02
- o Install Drainage Culverts, 450-03
- Clean & Reshape Ditches-Hand Method, 450-04
- Clean & Reshape Ditches-Machine Method, 450-05
- o Install/Replace Inlets & Catch Basins, 450-06

In 2018, maintenance of drainage structures occurred at 22,160.66 locations; 418 drainage structures were repaired; 31 new drainage culverts were installed; 16 inlets & catch basins were installed/replaced. 422,564.75 linear feet of ditches were cleaned and reshaped to improve drainage. For area specifics, refer to Appendix A.

BMP: Fleet Maintenance

BMP Description: All equipment and vehicles will adhere to the maintenance schedule provided by the manufacturer to reduce fluid leaks.

Summary of Results:

The permittee assigns all equipment a number according to its class code for tracking purposes. To ensure that the required routine maintenance on all vehicles and equipment is done as prescribed by the manufacturer, the LADOTD-Maintenance Systems Management Section uses Agile Assets System Database to track equipment use. The Agile Assets System Database is used not only to track usage rates, fuel transactions, and repairs made, but notify the permittee when scheduled maintenance is required. This database is for internal use only and is not made available on the permittee's website; however, the user's guide cover, table of contents, introduction and log in instructions have been made available in Appendix L.

BMP: Spill Prevention Plans

BMP Description: To comply with federal and state regulations, the permittee will develop spill prevention and control (SPC) plans at its facilities with aboveground storage tanks (ASTs).

Summary of Results:

In 2010, the permittee drafted a questionnaire to survey its facilities statewide. The purpose being to identify facilities with ASTs, the contents of the AST, and the volume typically kept on hand. Using the information gathered from the questionnaire, the LADOTD recognized facilities that would necessitate the development of a SPC plan. Fifty-five (55) SPC plans were developed for facilities statewide. Fifteen (15) SPC plans were revised in 2018. No new facilities have been identified as needing an SPC plan. Refer to Appendix P for example of SPC Questionnaire.

BMP: Employee Training

BMP Description: Develop and conduct employee training programs to educate maintenance personnel on a variety of storm water related topics. Training topics will include operation and maintenance (O&M) procedures for highways, structures, right-of-ways (ROW), equipment, recognizing illicit discharges, materials handling and storage, vegetation management, and pollution prevention BMPs.

Summary of Results:

Most trainings for maintenance personnel is provided in-house through the permittee's LTRC section or the employee's host district training office. Training topics and the number of trainings annually held vary greatly due to the permittee's diverse operations and large workforce. For illustration purposes, listed below are a few of the trainings held in 2018, in the permittee's regulated areas.

| Date | Course Number | Course Title | Regulated Area |
|----------------------|------------------|-----------------------------|----------------|
| Continuous | | Equipment Training | |
| November 8, 2018 | | Equipment Training | District 61 |
| 110 (211102) 8, 2018 | | DOTD Drain Cleaning | District 02 |
| | | Activities | |
| November 8, 2018 | | DOTD Winter Preparations | |
| October 18, 2018 | | | District 02 |
| | | Qualified Inspector Program | |
| April 4, 2018 | | Certified Stormwater | |
| | | Inspector Recertification | |

Training records are maintained by the training coordinator assigned to the host district.

BMP: Illegal Dumping

BMP Description: Investigate illegal dumping activities at LADOTD properties to determine the source of materials, report results of investigation to proper authorities and to coordinate remediation efforts.

Summary of Results:

The accomplishment from the maintenance activity, Spill Clean Up, 425-01, is used to obtain the measureable goal for the illegal dumping BMP. In 2018, 493 locations were identified within the permitted UAs and LDEQ designated areas as containing illegally dumped materials. The responsible parties were not known nor could be determined; however, the discarded materials were removed and properly disposed of by the permittee. For area specifics, refer to Appendix A.

BMP: De-icing/Anti-icing Materials Management

BMP Description: Ensure proper storage and if necessary installation of secondary containment for icing/anti-icing agents. Materials used for ice and snow control will be applied at the prescribed rates to prevent excess from entering neighboring waters.

Summary of Results:

The accomplishments from the following maintenance activities are used to obtain the measureable goals for de-icing/anti-icing materials management BMP.

- Snow & Ice Control, 540-07
- Snow & Ice Inspection/Reconnaissance, 540-09

A total of 24,133.34 hours were dedicated to the monitoring of road conditions, staging of materials and equipment, and the application of agents to improve travel conditions. For area specifics, refer to Appendix A.

To comply with WE-AO-10-01940, an Administrative Order issued by the LDEQ to the Louisiana Department of Transportation on December 8, 2010, and permit number LA0125563, the permittee presents the amount of de-icing/agents used throughout the state. During 2018, the permittee applied

To comply with WE-AO-10-01940, an Administrative Order issued by the LDEQ to the Louisiana Department of Transportation on December 8, 2010, and permit number LA0125563, the permittee presents the amount of de-icing/agents used throughout the state. During 2018, the permittee applied 539 cubic yards of lightweight aggregate and 3,218,150 pounds of salt statewide. For area specifics, refer to Appendix K. specific areas.

BMP: Bulk Materials Management

BMP Description: Stockpiles are to be stored in designated areas and inventoried regularly to determine loss of materials due to erosion.

Summary of Results:

The proper management of stockpiles can minimize environmental impacts and reduce replacement costs. This is accomplished through the use of designated areas for each type of material. Erosion controls are implemented near stockpiles that are prone to precipitation and wind erosion.

The accomplishment from the maintenance activity, Material Hauling, 630-03, is used to obtain the measureable goal for bulk materials management BMP. Maintenance personnel dedicated 2,882.76 hours to the loading, hauling, unloading, and inventory of bulk materials during the 2018 calendar year. For area specifics, refer to Appendix A.

BMP: Bridge and Structure Maintenance

BMP Description: The removal of debris from bridge structures to improve drainage and appearance.

Summary of Results:

The accomplishments from the following maintenance activities are used to obtain the measureable goals for the bridge and structure maintenance BMP.

- o Clean Structural Members, 465-00
- Clean Deck & Drain, 465-01
- o Remove Drift, 465-17

475,140.48 linear feet of drainage structures were cleaned by removing waste from deck drains and lines. Trash was removed from 245 locations near bridge drainage structures and culverts in 2018. Refer to Appendix A to obtain area specifics.

BMP: Debris Management

BMP Description: To clear the highway or roadside of potential hazards and ensure the proper disposal of collected waste.

Summary of Results:

Disposal of Roadway Debris, 630-09

3,043.61 cubic yards of accident or storm related waste was collected on Louisiana roadways and roadsides in 2018. Routine debris was removed and properly disposed of from 15,965.65 miles of highway and shoulder in 2018. Refer to Appendix A to obtain area specifics.

BMP: Erosion and Sediment Control

BMP Description: To repair and control erosion in the permittee's ROW.

Summary of Results:

The accomplishments from the maintenance activity, Erosion Control and Repair, 440-00, is used to obtain the measureable goal for the erosion and sediment control BMP. 4,644 square yards of erosion and sediment control materials were implemented within the LADOTD permitted areas. These practices include the backfilling of minor washouts or cuts and the repair of slopes. Refer to Appendix A for area specifics.

Looking Ahead: Storm Water Activities for 2019

This section will fulfill the below annual report requirement from the 2013 general permit.

A summary of the storm water activities you plan to undertake during the next reporting cycle (including an implementation schedule).

The LADOTD Environmental Compliance Unit (ECU) will not only continue its work efforts in 2019 with internal stakeholders and the LDEQ to further address initiatives, previously identified, but also reach out to the owners/operators of smaller MS4s which may be contiguous with or impacted by the operation of its infrastructures. One of the first tasks will be to identify these MS4s and their owners/operators with the intent of establishing points of contact followed by meaningful communication. The ECU envisions this initial task as a point of motivation which will, ultimately, lead to a more effective stormwater management of the various watersheds across the state. LADOTD will look for ways to continuously engage these MS4s and work through common challenges and goals. LADOTD will continue to update its outfall maps for the areas of the 303 (d) Impaired Water Bodies, and also continue to screen and assess the many outfalls throughout its MS4. Last year, we referenced the recent acquisition of "top quality" GPS units as part of our mapping and assessment plans for this program. Despite their value not having yet been fully utilized, the ECU is still excited about the acquisition of these units to aid in its on-going outfall assessments efforts and look forward to the benefits of their full utilization. We will, also, continue to work with our training Section (LTRC) to develop ideas and assess proposals from outside vendors for the identification and presentation of related stormwater training for the appropriate program stakeholders.

The ECU's efforts over the last three years to include the various stormwater related topics, as part of the Department's Annual Water and Wastewater Re-certification training, has continued to be a positive move. This has now become a recognized and valued vehicle for educating a number of statewide internal stakeholders. We will, therefore, again include such topics in this year's class. As previously stated, the class is LDH approved and will be scheduled to take place during the month of August. This training will be in addition to planned training initiatives mentioned above involving LTRC.

Although LADOTD has now been authorized (December, 2016) to discharge under its most recent Construction and Maintenance Stormwater Permit, the ECU and the Construction Section still spends a significant amount of time assisting its stakeholders with the implementation of the new permit. We foresee and intend to continue providing such assistance in 2019 to ensure compliance with the permit.

As always, the LADOTD appreciates the work relationship which exist with the LDEQ and looks forward to such continued work efforts in addressing the various environmental obligations of the State.

Storm Water Management Program Changes

The Storm Water Management Program Changes section will fulfill the below annual report requirement from the 2013 general permit.

Proposed changes to your Storm Water Management Program, including changes to any BMPs or any identified measureable goals that apply to the program elements.

The LADOTD has no management plan changes for this year.

Sharing Responsibility

The section entitled *Sharing Responsibility* will fulfill the below annual report requirement from the 2013 general permit.

Notice that you are relying on another government entity to satisfy some of your permit obligations (if applicable).

Although, the LADOTD does not rely on any other government entity and wholly accepts the responsibility to satisfy its permit obligations entirely, we enjoy our work relationship with the LDEQ in changing, specific benchmarks and etc. This relationship better enables the LADOTD to achieve its permit requirements.

Appendix A

Measurable Goals Output Tables I-XV

Table I

LDEQ- designated regulated area: Abbeville

| BMP Measurable Goal | | Function Code | Unit of Measurement | Quantity | |
|---|---|------------------|------------------------|----------|--|
| Illegal Dumping | Spill Clean-Up | 425-01 | Each | 3 | |
| Drainage Maintenance | Erosion Control & Repair | 440-00 | Square Yards | 0 | |
| Litter Collection | Pick Up of Debris/Litter | 630-10 | Cubic Yards | 5 | |
| | Pick Up of Litter(Adopt-A-Road) | 440-04 | Cubic Yards | 0 | |
| | Number of Active Groups | N/A | Each | 0 | |
| | Number of Miles Adopted | N/A | Miles | 0 | |
| | Pick Up of Inmate Litter | 440-05 | Cubic Yards | 0 | |
| | Pick Up of Sheriff's Litter | 440-06 | Cubic Yards | 0 | |
| Herbicide Application | Herbicide Application-Hand Method | 440-12 | Each | 0 | |
| | Herbicide Application-Machine Method | 440-13 | Acres | 218.70 | |
| | Number of Licensed Applicators | | Each | 2 | |
| | Number of Training Hours | | Hours | 8 | |
| Roadside Drainage Maintainence | Clean and Maintain Drainage Structures | 450-01 | Each | 173 | |
| | Drainage Structure Repair | 450-02 | Each | 1 | |
| | Install Drainage Culverts | 450-03 | Each | 0 | |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Clean & Reshape Ditches-Hand Method | 450-04 | Linear Feet | 0 | |
| | Clean & Reshape Ditches-Machine Method | 450-05 | Linear Feet | 400 | |
| | Install/Replace Inlets & Catch Basins | 450-06 | Each | 0 | |
| Bridge & Structure Maintainence | Clean Structural Members | 465-00 | Each | 0 | |
| | Clean Deck & Drain | 465-01 | Linear Feet | 720 | |
| Remove Drift | | 465-17 | Each | 1 | |
| Street Sweeping Sweeper Cleaning | | 540-03 | Miles | 0 | |
| De-Icing/Anti-Icing Materials Management | cing/Anti-Icing Snow & Ice Control 540-0 | | Hours | 94 | |
| | Snow & Ice Inspection/Reconnaissance | 540-09 | Hours | 33 | |
| Bulk Materials Management | terials Material Hauling | | Hours | 425.5 | |
| Debris Management | Vegetative Debris Removal & Disposal | 440-08 | Cubic Yards | 0 | |
| | Clearing Roadways Travel Lanes | 440-19 | Miles | 0 | |
| | Disposal of Debris/Litter | 630-09 | Cubic Yards | 108 | |

Table II

UA: Alexandria

| BMP , | Measurable Goal | | Unit of Measurement | Quantity | |
|---|---|----------------|------------------------|----------|--|
| Illegal Dumping | Spill Clean-Up | Code 425-01 | Each | 5 | |
| Drainage Maintenance | Erosion Control & Repair | 440-00 | Square Yards | 0 | |
| Litter Collection | Pick Up of Debris/Litter | 630-10 | Cubic Yards | 167.25 | |
| | Pick Up of Litter(Adopt-A-Road) | 440-04 | Cubic Yards | 12.5 | |
| | Number of Active Groups | N/A | Each | 9 | |
| | Number of Miles Adopted | N/A | Miles | 23.13 | |
| | Pick Up of Inmate Litter | 440-05 | Cubic Yards | 194 | |
| | Pick Up of Sheriff's Litter | 440-06 | Cubic Yards | 0 | |
| Herbicide Application | Herbicide Application-Hand Method | 440-12 | Each | 0 | |
| | Herbicide Application-Machine Method | 440-13 | Acres | 596.5 | |
| | Number of Licensed Applicators | | Each | 4 | |
| | Number of Training Hours | | Hours/Each | 12 | |
| Roadside Drainage Maintainence | Clean and Maintain Drainage Structures | 450-01 | Each | 112 | |
| | Drainage Structure Repair | 450-02 | Each | 11 | |
| | Install Drainage Culverts | 450-03 | Each | 0 | |
| | Clean & Reshape Ditches-Hand Method | 450-04 | Linear Feet | 10 | |
| | Clean & Reshape Ditches-Machine Method | 450-05 | Linear Feet | 12,864.3 | |
| | Install/Replace Inlets & Catch Basins | 450-06 | Each | 0 | |
| Bridge & Structure Maintainence | Clean Structural Members | 465-00 | Each | 0 | |
| | Clean Deck & Drain | 465-01 | Linear Feet | 910 | |
| Remove Drift | | 465-17 | Each | 2 | |
| Street Sweeping | Sweeper Cleaning | 540-03 | Miles | 62.36 | |
| De-Icing/Anti-Icing Materials Management | Snow & Ice Control | 540-07 | Hours | 437.5 | |
| | Snow & Ice 540-09 Inspection/Reconnaissance | | Hours | 6.6 | |
| Bulk Materials Management | Bulk Materials Material Hauling | | Hours | 225.50 | |
| Debris Management | Vegetative Debris Removal & Disposal | 440-08 | Cubic Yards | 0 | |
| | Clearing Roadways Travel Lanes | 440-19 | Miles | 10.3 | |
| | Disposal of Debris/Litter | 630-09 | Cubic Yards | 2 | |

Table III

LDEQ- designated regulated area: Bastrop

| ВМР | Measurable Goal | Function Code | Unit of Measurement | Quantity |
|---|---|------------------|---------------------|----------|
| Illegal Dumping | Spill Clean-Up | 425-01 | Each | 3 |
| Drainage Maintenance | Erosion Control & Repair | 440-00 | Square Yards | <u> </u> |
| Litter Collection | Pick Up of Debris/Litter | 630-10 | Cubic Yards | 20 |
| | Pick Up of Litter(Adopt-A-Road) | 440-04 | Cubic Yards | 0 |
| | Number of Active Groups | N/A | Each | 0 |
| | Number of Miles Adopted | N/A | Miles | 0 |
| | Pick Up of Inmate Litter | 440-05 | Cubic Yards | 0 |
| | Pick Up of Sheriff's Litter | 440-06 | Cubic Yards | 0 |
| Herbicide Application | Herbicide Application-Hand Method | 440-12 | Each | 4,742.5 |
| | Herbicide Application-Machine Method | 440-13 | Acres | 256 |
| | Number of Licensed Applicators | | Each | 0 |
| | Number of Training Hours | | Hours | N/A |
| Roadside Drainage Maintainence | Clean and Maintain Drainage Structures | 450-01 | Each | 747 |
| | Drainage Structure Repair | 450-02 | Each | 8 |
| | Install Drainage Culverts | 450-03 | Each | 5 |
| | Clean & Reshape Ditches-Hand Method | 450-04 | Linear Feet | 3,090 |
| | Clean & Reshape Ditches-Machine Method | 450-05 | Linear Feet | 7,515 |
| | Install/Replace Inlets & Catch Basins | 450-06 | Each | 0 |
| Bridge & Structure Maintainence | Clean Structural Members | 465-00 | Each | 0 |
| | Clean Deck & Drain | 465-01 | Linear Feet | 2,400 |
| | Remove Drift | 465-17 | Each | 41 |
| Street Sweeping | Sweeper Cleaning | 540-03 | Miles | 0 |
| De-Icing/Anti-Icing Materials Management | Snow & Ice Control | 540-07 | Hours | 1,268 |
| | Snow & Ice Inspection/Reconnaissance | 540-09 | Hours | 3,174 |
| Bulk Materials Management | Material Hauling | 630-03 | Hours | 0 |
| Debris Management | Vegetative Debris Removal & Disposal | 440-08 | Cubic Yards | 607.1 |
| | Clearing Roadways Travel Lanes | 440-19 | Miles | 0.01 |
| | Disposal of Debris/Litter | 630-09 | Cubic Yards | 0 |

Table IV

UA: Baton Rouge

| ВМР | Measurable Goal | Function Code | Unit of Measurement | Quantity |
|---|---|------------------|------------------------|-----------|
| Illegal Dumping | Spill Clean-Up | 425-01 | Each | 179 |
| Drainage Maintenance | Erosion Control & Repair | 440-00 | Square Yards | 349 |
| Litter Collection | Pick Up of Debris/Litter | 630-10 | Cubic Yards | 1,341.22 |
| | Pick Up of Litter(Adopt-A-Road) | 440-04 | Cubic Yards | 7.87 |
| | Number of Active Groups | N/A | Each | 12 |
| | Number of Miles Adopted | N/A | Miles | 11.9 |
| | Pick Up of Inmate Litter | 440-05 | Cubic Yards | 70.50 |
| | Pick Up of Sheriff's Litter | 440-06 | Cubic Yards | 29 |
| Herbicide Application | Herbicide Application-Hand Method | 440-12 | Each | 714 |
| | Herbicide Application-Machine Method | 440-13 | Acres | 910.43 |
| | Number of Licensed Applicators | | Each | 7 |
| | Number of Training Hours | | Hours | 8 |
| Roadside Drainage Maintainence | Clean and Maintain Drainage Structures | 450-01 | Each | 5,233.50 |
| | Drainage Structure Repair | 450-02 | Each | 12 |
| | Install Drainage Culverts | 450-03 | Each | 5 |
| | Clean & Reshape Ditches-Hand Method | 450-04 | Linear Feet | 240 |
| | Clean & Reshape Ditches-Machine Method | 450-05 | Linear Feet | 83,172.70 |
| | Install/Replace Inlets & Catch Basins | 450-06 | Each | 2 |
| | Clean Structural Members | 465-00 | Each | 0 |
| Bridge & Structure Maintainence | Clean Deck & Drain | 465-01 | Linear Feet | 21,742 |
| | Remove Drift | 465-17 | Each | 2 |
| Street Sweeping | Sweeper Cleaning | 540-03 | Miles | 1,036.80 |
| De-Icing/Anti-Icing Materials Management | Snow & Ice Control | 540-07 | Hours | 260.24 |
| | Snow & Ice Inspection/Reconnaissance | 540-09 | Hours | 7 |
| Bulk Materials Management | Material Hauling | 630-03 | Hours | 704.26 |
| Debris Management | Vegetative Debris Removal & Disposal | 440-08 | Cubic Yards | 224.01 |
| | Clearing Roadways Travel Lanes | 440-19 | Miles | 68 |
| | Disposal of Debris/Litter | 630-09 | Cubic Yards | 61 |

Table V

LDEQ- designated regulated area: Hammond

| ВМР | Measurable Goal | Function Code | Unit of Measurement | Quantity |
|---|---|------------------|------------------------|----------|
| Illegal Dumping | Spill Clean-Up | 425-01 | | |
| Drainage | Erosion Control & Repair | 440-00 | Each | 17 |
| Maintenance | Liosion Control & Repair | 440-00 | Square Yards | 0 |
| Litter Collection | Pick Up of Debris/Litter | 630-10 | Cubic Yards | 470.31 |
| | Pick Up of Litter(Adopt-A-Road) | 440-04 | Cubic Yards | 0.60 |
| | Number of Active Groups | N/A | Each | 7 |
| | Number of Miles Adopted | N/A | Miles | 7 |
| | Pick Up of Inmate Litter | 440-05 | Cubic Yards | 144 |
| | Pick Up of Sheriff's Litter | 440-06 | Cubic Yards | 0 |
| Herbicide Application | Herbicide Application-Hand Method | 440-12 | Each | 0 |
| | Herbicide Application-Machine Method | 440-13 | Acres | 1,334 |
| | Number of Licensed Applicators | | Each | 11 |
| | Number of Training Hours | | Hours/Each | 8 |
| Roadside Drainage | Clean and Maintain Drainage | 450-01 | Each | 1,238 |
| Maintainence | Structures | | | _, |
| | Drainage Structure Repair | 450-02 | Each | 4 |
| | Install Drainage Culverts | 450-03 | Each | 2 |
| | Clean & Reshape Ditches-Hand Method | 450-04 | Linear Feet | 0 |
| | Clean & Reshape Ditches-Machine Method | 450-05 | Linear Feet | 44,387 |
| | Install/Replace Inlets & Catch Basins | 450-06 | Each | 0 |
| Bridge & Structure Maintainence | Clean Structural Members | 465-00 | Each | 0 |
| | Clean Deck & Drain | 465-01 | Linear Feet | 0 |
| | Remove Drift | 465-17 | Each | 180 |
| Street Sweeping | Sweeper Cleaning | 540-03 | Miles | 80.80 |
| De-Icing/Anti-Icing Naterials Management | Snow & Ice Control | 540-07 | Hours | 170.50 |
| | Snow & Ice Inspection/Reconnaissance | 540-09 | Hours | 50.50 |
| Bulk Materials Management | Material Hauling | 630-03 | Hours | 339 |
| Debris Management | Vegetative Debris Removal & Disposal | 440-08 | Cubic Yards | 184 |
| | Clearing Roadways Travel Lanes | 440-19 | Miles | 8.30 |
| | Disposal of Debris/Litter | 630-09 | Cubic Yards | 211.50 |

Table VI

UA: Houma

| Spill Clean-Up Erosion Control & Repair Pick Up of Debris/Litter Pick Up of Litter(Adopt-A-Road) Number of Active Groups Number of Miles Adopted Pick Up of Inmate Litter Pick Up of Sheriff's Litter Pick Up of Inmate Litter | Code 425-01 440-00 630-10 440-04 N/A N/A 440-05 440-06 440-12 440-13 | Measurement Each Square Yards Cubic Yards Cubic Yards Each Miles Cubic Yards Cubic Yards Cubic Yards Each Acres Each Hours/Each | 18 0 449.25 0 10 15.25 0 0 6,802 |
|---|--|---|--|
| Pick Up of Debris/Litter Pick Up of Litter(Adopt-A-Road) Number of Active Groups Number of Miles Adopted Pick Up of Inmate Litter Pick Up of Sheriff's Litter Pick Up of Inmate Litter | 440-00 630-10 440-04 N/A N/A 440-05 440-06 440-12 440-13 | Square Yards Cubic Yards Cubic Yards Each Miles Cubic Yards Cubic Yards Cubic Yards Each Acres Each | 0 449.25 0 10 15.25 0 0 0 6,802 |
| Pick Up of Debris/Litter Pick Up of Litter(Adopt-A-Road) Number of Active Groups Number of Miles Adopted Pick Up of Inmate Litter Pick Up of Sheriff's Litter erbicide Application-Hand Method Herbicide Application-Machine Method Number of Licensed Applicators Number of Training Hours Clean and Maintain Drainage Structures | 630-10 440-04 N/A N/A 440-05 440-06 440-12 440-13 | Cubic Yards Cubic Yards Each Miles Cubic Yards Cubic Yards Each Acres Each | 449.25 0 10 15.25 0 0 6,802 |
| Pick Up of Litter(Adopt-A-Road) Number of Active Groups Number of Miles Adopted Pick Up of Inmate Litter Pick Up of Sheriff's Litter erbicide Application-Hand Method Herbicide Application-Machine Method Number of Licensed Applicators Number of Training Hours Clean and Maintain Drainage Structures | 440-04 N/A N/A 440-05 440-06 440-12 440-13 | Cubic Yards Each Miles Cubic Yards Cubic Yards Each Acres | 0 10 15.25 0 0 0 6,802 |
| Pick Up of Litter(Adopt-A-Road) Number of Active Groups Number of Miles Adopted Pick Up of Inmate Litter Pick Up of Sheriff's Litter erbicide Application-Hand Method Herbicide Application-Machine Method Number of Licensed Applicators Number of Training Hours Clean and Maintain Drainage Structures | 440-04 N/A N/A 440-05 440-06 440-12 440-13 | Cubic Yards Each Miles Cubic Yards Cubic Yards Each Acres | 0 10 15.25 0 0 0 6,802 |
| Number of Miles Adopted Pick Up of Inmate Litter Pick Up of Sheriff's Litter erbicide Application-Hand Method Herbicide Application-Machine Method Number of Licensed Applicators Number of Training Hours Clean and Maintain Drainage Structures | N/A N/A 440-05 440-06 440-12 440-13 | Each Miles Cubic Yards Cubic Yards Each Acres Each | 10 15.25 0 0 0 6,802 |
| Pick Up of Inmate Litter Pick Up of Sheriff's Litter erbicide Application-Hand Method Herbicide Application-Machine Method Number of Licensed Applicators Number of Training Hours Clean and Maintain Drainage Structures | N/A 440-05 440-06 440-12 440-13 | Miles Cubic Yards Cubic Yards Each Acres | 15.25 0 0 0 0 6,802 |
| Pick Up of Sheriff's Litter erbicide Application-Hand Method Herbicide Application-Machine | 440-06 440-12 440-13 | Cubic Yards Cubic Yards Each Acres Each | 0 0 0 6,802 |
| erbicide Application-Hand Method Herbicide Application-Machine Method Number of Licensed Applicators Number of Training Hours Clean and Maintain Drainage Structures | 440-12 440-13 | Each Acres Each | 0 0 6,802 |
| Herbicide Application-Machine Method Number of Licensed Applicators Number of Training Hours Clean and Maintain Drainage Structures | 440-13 | Each Acres Each | 0 6,802 3 |
| Method Number of Licensed Applicators Number of Training Hours Clean and Maintain Drainage Structures | | Each | 6,802 |
| Number of Licensed Applicators Number of Training Hours Clean and Maintain Drainage Structures | 450-01 | | 3 |
| Number of Training Hours Clean and Maintain Drainage Structures | 450-01 | | |
| Clean and Maintain Drainage Structures | 450-01 | Hours/Each | |
| Structures | 450-01 | | O. |
| | | Each | 1,137 |
| Drainage Structure Repair | | | • |
| | 450-02 | Each | 17 |
| Install Drainage Culverts | 450-03 | Each | 6 |
| Clean & Reshape Ditches-Hand | 450-04 | Linear Feet | 0 |
| Method | | | |
| ean & Reshape Ditches-Machine Method | 450-05 | Linear Feet | 21,365 |
| tall/Replace Inlets & Catch Basins | 450-06 | Each | 0 |
| Clean Structural Members | 465-00 | Each | 0 |
| Clean Deck & Drain | 465-01 | Linear Feet | 0 |
| Remove Drift | 465-17 | Each | 0 |
| Sweeper Cleaning | 540-03 | Miles | 0 |
| Snow & Ice Control | 540-07 | Hours | 55.50 |
| Snow & Ice | 540-09 | Hours | 1 |
| Material Hauling | 630-03 | Hours | 174 |
| getative Debris Removal & Disposal | 440-08 | Cubic Yards | 0 |
| earing Roadways Travel Lanes | 440-19 | | 0 |
| Disposal of Debris/Litter | 630-09 | Cubic Yards | 50 |
| | | | |
| | Remove Drift Sweeper Cleaning Snow & Ice Control Snow & Ice Inspection/Reconnaissance Material Hauling getative Debris Removal & Disposal learing Roadways Travel Lanes | Remove Drift 465-17 Sweeper Cleaning 540-03 Snow & Ice Control 540-07 Snow & Ice 540-09 Inspection/Reconnaissance Material Hauling 630-03 Setative Debris Removal & Disposal 440-08 Learing Roadways Travel Lanes 440-19 | Clean Deck & Drain 465-01 Linear Feet Remove Drift 465-17 Each Sweeper Cleaning 540-03 Miles Snow & Ice Control 540-07 Hours Snow & Ice 540-09 Hours Inspection/Reconnaissance Material Hauling 630-03 Hours getative Debris Removal & Disposal 440-08 Cubic Yards learing Roadways Travel Lanes 440-19 Miles |

Table VII

UA: Lafayette

| ВМР | Measurable Goal | Function Code | Unit of Measurement | Quantity |
|---|---|------------------|---------------------|----------|
| Illegal Dumping | Spill Clean-Up | 425-01 | Each | 45 |
| Drainage Maintenance | Erosion Control & Repair | 440-00 | Square Yards | 0 |
| Litter Collection | Pick Up of Debris/Litter | 630-10 | Cubic Yards | 520.381 |
| | Pick Up of Litter(Adopt-A-Road) | 440-04 | Cubic Yards | 0 |
| | Number of Active Groups | N/A | Each | 7 |
| *************************************** | Number of Miles Adopted | N/A | Miles | 5.6 |
| | Pick Up of Inmate Litter | 440-05 | Cubic Yards | 0 |
| | Pick Up of Sheriff's Litter | 440-06 | Cubic Yards | 0 |
| Herbicide Application | Herbicide Application-Hand Method | 440-12 | Each | 0 |
| | Herbicide Application-Machine Method | 440-13 | Acres | 2,698 |
| | Number of Licensed Applicators | | Each | 6 |
| | Number of Training Hours | | Hours/Each | 8 |
| Roadside Drainage Maintainence | Clean and Maintain Drainage Structures | 450-01 | Each | 1,079 |
| | Drainage Structure Repair | 450-02 | Each | 86 |
| | Install Drainage Culverts | 450-03 | Each | 1 |
| | Clean & Reshape Ditches-Hand Method | 450-04 | Linear Feet | 9 |
| | Clean & Reshape Ditches-Machine Method | 450-05 | Linear Feet | 73,340 |
| | Install/Replace Inlets & Catch Basins | 450-06 | Each | 4 |
| Bridge & Structure Maintainence | Clean Structural Members | 465-00 | Each | 0 |
| | Clean Deck & Drain | 465-01 | Linear Feet | 0 |
| | Remove Drift | 465-17 | Each | 19 |
| Street Sweeping | Sweeper Cleaning | 540-03 | Miles | 10 |
| De-Icing/Anti-Icing Materials Management | Snow & Ice Control | 540-07 | Hours | 724.5 |
| | Snow & Ice Inspection/Reconnaissance | 540-09 | Hours | 131 |
| Bulk Materials Management | Material Hauling | 630-03 | Hours | 43 |
| Debris Management | Vegetative Debris Removal & Disposal | 440-08 | Cubic Yards | 0 |
| | Clearing Roadways Travel Lanes | 440-19 | Miles | 7.59 |
| | Disposal of Debris/Litter | 630-09 | Cubic Yards | 20 |

Table VIII

UA: Lake Charles

| ВМР | Measurable Goal | Function Code | Unit of Measurement | Quantity |
|---|---|------------------|---------------------|----------|
| Illegal Dumping | Spill Clean-Up | 425-01 | Each | 97.5 |
| Drainage Maintenance | Erosion Control & Repair | 440-00 | Square Yards | 0 |
| Litter Collection | Pick Up of Debris/Litter | 630-10 | Cubic Yards | 913 |
| | Pick Up of Litter(Adopt-A-Road) | 440-04 | Cubic Yards | 0 |
| | Number of Active Groups | N/A | Each | 6 |
| | Number of Miles Adopted | N/A | Miles | 8.25 |
| | Pick Up of Inmate Litter | 440-05 | Cubic Yards | 193.17 |
| | Pick Up of Sheriff's Litter | 440-06 | Cubic Yards | 0 |
| Herbicide Application | Herbicide Application-Hand Method | 440-12 | Each | 0 |
| | Herbicide Application-Machine Method | 440-13 | Acres | 2,166.01 |
| | Number of Licensed Applicators | | Each | 3 |
| | Number of Training Hours | | Hours/Each | 12 |
| Roadside Drainage Maintainence | Clean and Maintain Drainage Structures | 450-01 | Each | 362 |
| | Drainage Structure Repair | 450-02 | Each | 8 |
| | Install Drainage Culverts | 450-03 | Each | 0 |
| | Clean & Reshape Ditches-Hand Method | 450-04 | Linear Feet | 0 |
| | Clean & Reshape Ditches-Machine Method | 450-05 | Linear Feet | 17,303 |
| | Install/Replace Inlets & Catch Basins | 450-06 | Each | 0 |
| Bridge & Structure Maintainence | Clean Structural Members | 465-00 | Each | 0 |
| | Clean Deck & Drain | 465-01 | Linear Feet | 10,542 |
| | Remove Drift | 465-17 | Each | 0 |
| Street Sweeping | Sweeper Cleaning | 540-03 | Miles | 105.24 |
| De-Icing/Anti-Icing Materials Management | Snow & Ice Control | 540-07 | Hours | 0 |
| | Snow & Ice Inspection/Reconnaissance | 540-09 | Hours | 0 |
| Bulk Materials Management | Material Hauling | 630-03 | Hours | 110 |
| Debris Management | Vegetative Debris Removal & Disposal | 440-08 | Cubic Yards | 0 |
| | Clearing Roadways Travel Lanes | 440-19 | Miles | 2 |
| | Disposal of Debris/Litter | 630-09 | Cubic Yards | 6 |

Table IX

UA: Mandeville-Covington

| ВМР | Measurable Goal | Function Code | Unit of Measurement | Quantity |
|---|---|------------------|------------------------|----------|
| Illegal Dumping | Spill Clean-Up | 425-01 | Each | 1 |
| Drainage | Erosion Control & Repair | 440-00 | Square Yards | 0 |
| Maintenance | | | ' | : |
| Litter Collection | Pick Up of Debris/Litter | 630-10 | Cubic Yards | 61.10 |
| | Pick Up of Litter(Adopt-A-Road) | 440-04 | Cubic Yards | 0 |
| | Number of Active Groups | N/A | Each | 1 |
| | Number of Miles Adopted | N/A | Miles | 3 |
| | Pick Up of Inmate Litter | 440-05 | Cubic Yards | 190 |
| | Pick Up of Sheriff's Litter | 440-06 | Cubic Yards | 0 |
| Herbicide Application | Herbicide Application-Hand Method | 440-12 | Each | 0 |
| | Herbicide Application-Machine Method | 440-13 | Acres | 1,934.50 |
| | Number of Licensed Applicators | | Each | 11 |
| | Number of Training Hours | | Hours/Each | 8 |
| Roadside Drainage | Clean and Maintain Drainage | 450-01 | Each | 413 |
| Maintainence | Structures | | | |
| | Drainage Structure Repair | 450-02 | Each | 41 |
| | Install Drainage Culverts | 450-03 | Each | 3 |
| | Clean & Reshape Ditches-Hand Method | 450-04 | Linear Feet | 500 |
| | Clean & Reshape Ditches-Machine Method | 450-05 | Linear Feet | 58,109 |
| | Install/Replace Inlets & Catch Basins | 450-06 | Each | 10 |
| Bridge & Structure Maintainence | Clean Structural Members | 465-00 | Each | 0 |
| | Clean Deck & Drain | 465-01 | Linear Feet | 360 |
| | Remove Drift | 465-17 | Each | 0 |
| Street Sweeping | Sweeper Cleaning | 540-03 | Miles | 28 |
| De-Icing/Anti-Icing Materials Management | Snow & Ice Control | 540-07 | Hours | 36 |
| | Snow & Ice Inspection/Reconnaissance | 540-09 | Hours | 0 |
| Bulk Materials Management | Material Hauling | 630-03 | Hours | 36 |
| Debris Management | Vegetative Debris Removal & Disposal | 440-08 | Cubic Yards | 17 |
| | Clearing Roadways Travel Lanes | 440-19 | Miles | 6.70 |
| | Disposal of Debris/Litter | 630-09 | Cubic Yards | 0 |

Table X

UA: Monroe

| вмр | Measurable Goal | Function Code | Unit of Measurement | Quantity |
|---|---|------------------|---------------------|-----------|
| Illegal Dumping | Spill Clean-Up | 425-01 | Each | 38.5 |
| Drainage Maintenance | Erosion Control & Repair | 440-00 | Square Yards | 4,213 |
| Litter Collection | Pick Up of Debris/Litter | 630-10 | Cubic Yards | 2,300.85 |
| | Pick Up of Litter(Adopt-A-Road) | 440-04 | Cubic Yards | 0 |
| | Number of Active Groups | N/A | Each | 6 |
| . , , , , , , , , , , , , , , , , , , , | Number of Miles Adopted | N/A | Miles | 6 |
| | Pick Up of Inmate Litter | 440-05 | Cubic Yards | 0 |
| | Pick Up of Sheriff's Litter | 440-06 | Cubic Yards | 0 |
| Herbicide Application | Herbicide Application-Hand Method | 440-12 | Each | 3,020 |
| | Herbicide Application-Machine Method | 440-13 | Acres | 5,921 |
| | Number of Licensed Applicators | | Each | 1 |
| ,, | Number of Training Hours | | Hours | 6 |
| Roadside Drainage | Clean and Maintain Drainage | 450-01 | Each | 3,226 |
| Maintainence | Structures | | | |
| | Drainage Structure Repair | 450-02 | Each | 2 |
| | Install Drainage Culverts | 450-03 | Each | 1 |
| | Clean & Reshape Ditches-Hand Method | 450-04 | Linear Feet | 308 |
| | Clean & Reshape Ditches-Machine Method | 450-05 | Linear Feet | 43,683.75 |
| | Install/Replace Inlets & Catch Basins | 450-06 | Each | 0 |
| Bridge & Structure Maintainence | Clean Structural Members | 465-00 | Each | 0 |
| | Clean Deck & Drain | 465-01 | Linear Feet | 220,996 |
| | Remove Drift | 465-17 | Each | 0 |
| Street Sweeping | Sweeper Cleaning | 540-03 | Miles | 3,109.37 |
| De-Icing/Anti-Icing Materials Management | Snow & Ice Control | 540-07 | Hours | 15,494 |
| 0 | Snow & Ice Inspection/Reconnaissance | 540-09 | Hours | 117 |
| Bulk Materials | Material Hauling | 630-03 | Hours | 581 |
| Management | | | | |
| Debris Management | Vegetative Debris Removal & Disposal | 440-08 | Cubic Yards | 0 |
| | Clearing Roadways Travel Lanes | 440-19 | Miles | 15,845.02 |
| | Disposal of Debris/Litter | 630-09 | Cubic Yards | 3 |
| | | | | |

Table XI

LDEQ- designated regulated area: Morgan City

| ВМР | Measurable Goal | Function Code | Unit of Measurement | Quantity |
|---|---|------------------|---------------------|----------|
| Illegal Dumping | Spill Clean-Up | 425-01 | Each | 2 |
| Drainage Maintenance | Erosion Control & Repair | 440-00 | Square Yards | 0 |
| Litter Collection | Pick Up of Debris/Litter | 630-10 | Cubic Yards | 238.51 |
| | Pick Up of Litter(Adopt-A-Road) | 440-04 | Cubic Yards | 0 |
| | Number of Active Groups | N/A | Each | 1 |
| | Number of Miles Adopted | N/A | Miles | 1 |
| | Pick Up of Inmate Litter | 440-05 | Cubic Yards | 0 |
| | Pick Up of Sheriff's Litter | 440-06 | Cubic Yards | 0 |
| Herbicide Application | Herbicide Application-Hand Method | 440-12 | Each | 0 |
| | Herbicide Application-Machine Method | 440-13 | Acre | 95.8 |
| , Al-1, W., | Number of Licensed Applicators | | Each | 2 |
| | Number of Training Hours | | Hours | 8 |
| Roadside Drainage Maintainence | Clean and Maintain Drainage Structures | 450-01 | Each | 383 |
| | Drainage Structure Repair | 450-02 | Each | 0 |
| | Install Drainage Culverts | 450-03 | Each | 0 |
| | Clean & Reshape Ditches-Hand Method | 450-04 | Linear Feet | 0 |
| | Clean & Reshape Ditches-Machine Method | 450-05 | Linear Feet | 5,401 |
| | Install/Replace Inlets & Catch Basins | 450-06 | Each | 0 |
| Bridge & Structure Maintainence | Clean Structural Members | 465-00 | Each | 96 |
| | Clean Deck & Drain | 465-01 | Linear Feet | 39,755 |
| | Remove Drift | 465-17 | Each | 0 |
| Street Sweeping | Sweeper Cleaning | 540-03 | Miles | 32.72 |
| De-Icing/Anti-Icing Materials Management | Snow & Ice Control | 540-07 | Hours | 264 |
| | Snow & Ice Inspection/Reconnaissance | 540-09 | Hours | 160 |
| Bulk Materials Management | Material Hauling | 630-03 | Hours | 14 |
| Debris Management | Vegetative Debris Removal & Disposal | 440-08 | Cubic Yards | 0 |
| | Clearing Roadways Travel Lanes | 440-19 | Miles | 14.73 |
| | Disposal of Debris/Litter | 630-09 | Cubic Yards | 102 |

Table XII

LDEQ- designated regulated area: Natchitoches

| Measurable Goal | Function Code | Unit of Measurement | Quantity |
|---|---|--|---|
| Spill Clean-Up | | | 0 |
| Erosion Control & Repair | 440-00 | Square Yards | 0 |
| | | | |
| Pick Up of Debris/Litter | 630-10 | Cubic Yards | 0 |
| Pick Up of Litter(Adopt-A-Road) | 440-04 | Cubic Yards | 0 |
| Number of Active Groups | N/A | Each | 4 |
| Number of Miles Adopted | N/A | Miles | 7.32 |
| Pick Up of Inmate Litter | 440-05 | Cubic Yards | 0 |
| Pick Up of Sheriff's Litter | 440-06 | Cubic Yards | 0 |
| Herbicide Application-Hand Method | 440-12 | Each | 0 |
| Herbicide Application-Machine Method | 440-13 | Acres | 249.08 |
| Number of Licensed Applicators | | Each | 1 |
| 1 · · · · · · · · · · · · · · · · · · · | | Hours | 12 |
| | 450-01 | Each | 10 |
| Structures | | | |
| Drainage Structure Repair | 450-02 | Each | 3 |
| Install Drainage Culverts | 450-03 | Each | 0 |
| Clean & Reshape Ditches-Hand | 450-04 | Linear Feet | 0 |
| Method | | | |
| Clean & Reshape Ditches-Machine | 450-05 | Linear Feet | 1,050 |
| Method | | | • |
| Install/Replace Inlets & Catch Basins | 450-06 | Each | 0 |
| Clean Structural Members | 465-00 | Each | 0 |
| Clean Deck & Drain | 465-01 | Linear Feet | 450 |
| Remove Drift | 465-17 | Each | 0 |
| Sweeper Cleaning | 540-03 | Miles | 0 |
| Snow & Ice Control | 540-07 | Hours | 12 |
| Snow & Ice | 540-09 | Hours | 0 |
| Inspection/Reconnaissance | | | - |
| Material Hauling | 630-03 | Hours | 0 |
| Vegetative Debris Removal & Disposal | 440-08 | Cubic Yards | 0 |
| Clearing Roadways Travel Lanes | 440-19 | Miles | 1 |
| Disposal of Debris/Litter | 630-09 | Cubic Yards | 0 |
| | Spill Clean-Up Erosion Control & Repair Pick Up of Debris/Litter Pick Up of Litter(Adopt-A-Road) Number of Active Groups Number of Miles Adopted Pick Up of Inmate Litter Pick Up of Sheriff's Litter Herbicide Application-Hand Method Herbicide Application-Machine Method Number of Licensed Applicators Number of Training Hours Clean and Maintain Drainage Structures Drainage Structure Repair Install Drainage Culverts Clean & Reshape Ditches-Hand Method Clean & Reshape Ditches-Machine Method Install/Replace Inlets & Catch Basins Clean Structural Members Clean Deck & Drain Remove Drift Sweeper Cleaning Snow & Ice Inspection/Reconnaissance Material Hauling Vegetative Debris Removal & Disposal | Spill Clean-Up 425-01 Erosion Control & Repair 440-00 Pick Up of Debris/Litter 630-10 Pick Up of Litter(Adopt-A-Road) 440-04 Number of Active Groups N/A Number of Miles Adopted N/A Pick Up of Inmate Litter 440-05 Pick Up of Sheriff's Litter 440-06 Herbicide Application-Hand Method 440-12 Herbicide Application-Machine Method Number of Licensed Applicators Number of Training Hours Clean and Maintain Drainage 450-01 Structures Drainage Structure Repair 450-02 Install Drainage Culverts 450-03 Clean & Reshape Ditches-Hand Method Clean & Reshape Ditches-Machine Method Clean Structural Members 465-00 Clean Structural Members 465-00 Clean Deck & Drain 465-01 Remove Drift 465-17 Sweeper Cleaning 540-03 Snow & Ice Control 540-07 Vegetative Debris Removal & Disposal 440-08 | Spill Clean-Up 425-01 Each Erosion Control & Repair 440-00 Square Yards Pick Up of Debris/Litter 630-10 Cubic Yards Pick Up of Litter(Adopt-A-Road) 440-04 Cubic Yards Number of Active Groups N/A Each Number of Miles Adopted N/A Miles Pick Up of Inmate Litter 440-05 Cubic Yards Pick Up of Sheriff's Litter 440-06 Cubic Yards Pick Up of Sheriff's Litter 440-06 Cubic Yards Pick Up of Sheriff's Litter 440-12 Each Herbicide Application-Hand Method 440-12 Each Herbicide Application-Machine Method Application-Machine Method Number of Training Hours Hours Clean and Maintain Drainage 450-01 Each Structures Drainage Structure Repair 450-02 Each Install Drainage Culverts 450-03 Each Clean & Reshape Ditches-Hand Method Clean & Reshape Ditches-Machine Method Install/Replace Inlets & Catch Basins 450-06 Each Clean Structural Members 465-00 Each Clean Deck & Drain 465-01 Linear Feet Remove Drift 465-17 Each Sweeper Cleaning 540-03 Miles Snow & Ice Control 540-07 Hours Vegetative Debris Removal & Disposal 440-08 Cubic Yards |

Table XIII

UA: New Orleans

| ВМР | Measurable Goal | Function | Unit of | Quantity |
|---|---|----------|--------------|------------|
| | | Code | Measurement | |
| Illegal Dumping | Spill Clean-Up | 425-01 | Each | 64 |
| Drainage Maintenance | Erosion Control & Repair | 440-00 | Square Yards | 0 |
| Litter Collection | Pick Up of Debris/Litter | 630-10 | Cubic Yards | 6,560.703 |
| | Pick Up of Litter(Adopt-A-Road) | 440-04 | Cubic Yards | 0 |
| | Number of Active Groups | N/A | Each | 37 |
| | Number of Miles Adopted | N/A | Miles | 39.25 |
| | Pick Up of Inmate Litter | 440-05 | Cubic Yards | 0 |
| | Pick Up of Sheriff's Litter | 440-06 | Cubic Yards | 0 |
| Herbicide Application | Herbicide Application-Hand Method | 440-12 | Each | 0 |
| | Herbicide Application-Machine Method | 440-13 | Acres | 176 |
| · · · · · · · · · · · · · · · · · · · | Number of Licensed Applicators | | Each | 13 |
| | Number of Training Hours | | Hours/Each | 8 |
| Roadside Drainage Maintainence | Clean and Maintain Drainage Structures | 450-01 | Each | 3,979.16 |
| | Drainage Structure Repair | 450-02 | Each | 190 |
| | Install Drainage Culverts | 450-03 | Each | 5 |
| | Clean & Reshape Ditches-Hand Method | 450-04 | Linear Feet | 153 |
| | Clean & Reshape Ditches-Machine Method | 450-05 | Linear Feet | 16,506 |
| | Install/Replace Inlets & Catch Basins | 450-06 | Each | 0 |
| Bridge & Structure Maintainence | Clean Structural Members | 465-00 | Each | 3 |
| | Clean Deck & Drain | 465-01 | Linear Feet | 166,303.49 |
| | Remove Drift | 465-17 | Each | 0 |
| Street Sweeping | Sweeper Cleaning | 540-03 | Miles | 5,969.42 |
| De-Icing/Anti-Icing Materials Management | Snow & Ice Control | 540-07 | Hours | 361.50 |
| | Snow & Ice Inspection/Reconnaissance | 540-09 | Hours | 69.50 |
| Bulk Materials Management | Material Hauling | 630-03 | Hours | 116 |
| Debris Management | Vegetative Debris Removal & Disposal | 440-08 | Cubic Yards | 0 |
| | Clearing Roadways Travel Lanes | 440-19 | Miles | 1 |
| | Disposal of Debris/Litter | 630-09 | Cubic Yards | 1,445 |

Table XIV

UA: Shreveport

| ВМР | Measurable Goal | Function Code | Unit of Measurement | Quantity |
|--|---|------------------|---------------------|----------|
| Illegal Dumping | Spill Clean-Up | 425-01 | Each | 17 |
| Drainage | Erosion Control & Repair | 440-00 | Square Yards | 82 |
| Maintenance | · | | | U.E |
| Litter Collection | Pick Up of Debris/Litter | 630-10 | Cubic Yards | 2,776.36 |
| | Pick Up of Litter(Adopt-A-Road) | 440-04 | Cubic Yards | 0 |
| | Number of Active Groups | N/A | Each | 4 |
| · | Number of Miles Adopted | N/A | Miles | 7.25 |
| | Pick Up of Inmate Litter | 440-05 | Cubic Yards | 0 |
| | Pick Up of Sheriff's Litter | 440-06 | Cubic Yards | 91 |
| Herbicide Application | Herbicide Application-Hand Method | 440-12 | Each | 1,095 |
| - | Herbicide Application-Machine | 440-13 | Acres | 97 |
| | Method | | . 15. 55 | 5, |
| | Number of Licensed Applicators | | Each | 1 |
| | Number of Training Hours | | Hours/Each | 8 |
| Roadside Drainage | Clean and Maintain Drainage | 450-01 | Each | 3,998 |
| Maintainence | Structures | | | 3,330 |
| | Drainage Structure Repair | 450-02 | Each | 35 |
| | Install Drainage Culverts | 450-03 | Each | 0 |
| | Clean & Reshape Ditches-Hand Method | 450-04 | Linear Feet | 0 |
| | Clean & Reshape Ditches-Machine Method | 450-05 | Linear Feet | 0 |
| | Install/Replace Inlets & Catch Basins | 450-06 | Each | 0 |
| Bridge & Structure Maintainence | Clean Structural Members | 465-00 | Each | 1 |
| | Clean Deck & Drain | 465-01 | Linear Feet | 5,180 |
| | Remove Drift | 465-17 | Each | 0 |
| Street Sweeping | Sweeper Cleaning | 540-03 | Miles | 9.2 |
| De-Icing/Anti-Icing Materials Management | Snow & Ice Control | 540-07 | Hours | 755 |
| | Snow & Ice | 540-09 | Hours | 442 |
| Bulk Materials | Inspection/Reconnaissance | | | |
| Management | Material Hauling | 630-03 | Hours | 1 |
| Debris Management | Vegetative Debris Removal & Disposal | 440-08 | Cubic Yards | 0 |
| [| Roadway Clearing | 440-19 | Miles | 0 |
| | Disposal of Debris/Litter | | | |

Table XV

UA: Slidell

| ВМР | Measurable Goal | Function Code | Unit of Measurement | Quantity |
|---|---|------------------|------------------------|----------|
| Illegal Dumping | Spill Clean-Up | 425-01 | Each | 2. |
| Drainage Maintenance | Erosion Control & Repair | 440-00 | Square Yards | 0 |
| Litter Collection | Pick Up of Debris/Litter | 630-10 | Cubic Yards | 240.10 |
| | Pick Up of Litter(Adopt-A-Road) | 440-04 | Cubic Yards | 0 |
| | Number of Active Groups | N/A | Each | 1 |
| | Number of Miles Adopted | N/A | Miles | 5 |
| | Pick Up of Inmate Litter | 440-05 | Cubic Yards | 138 |
| | Pick Up of Sheriff's Litter | 440-06 | Cubic Yards | 0 |
| Herbicide Application | Herbicide Application-Hand Method | 440-12 | Each | 0 |
| | Herbicide Application-Machine Method | 440-13 | Acres | 885 |
| | Number of Licensed Applicators | | Each | 11 |
| | Number of Training Hours | | Hours/Each | 8 |
| Roadside Drainage Maintainence | Clean and Maintain Drainage Structures | 450-01 | Each | 70 |
| | Drainage Structure Repair | 450-02 | Each | 0 |
| | Install Drainage Culverts | 450-03 | Each | 3 |
| | Clean & Reshape Ditches-Hand Method | 450-04 | Linear Feet | 0 |
| | Clean & Reshape Ditches-Machine Method | 450-05 | Linear Feet | 33,158 |
| | Install/Replace Inlets & Catch Basins | 450-06 | Each | 0 |
| Bridge & Structure Maintainence | Clean Structural Members | 465-00 | Each | 0 |
| | Clean Deck & Drain | 465-01 | Linear Feet | 5,781.99 |
| | Remove Drift | 465-17 | Each | 0 |
| Street Sweeping | Sweeper Cleaning | 540-03 | Miles | 69 |
| De-Icing/Anti-Icing Materials Management | Snow & Ice Control | 540-07 | Hours | 7 |
| | Snow & Ice Inspection/Reconnaissance | 540-09 | Hours | 2 |
| Bulk Materials Management | Material Hauling | 630-03 | Hours | 113.50 |
| Debris Management | Vegetative Debris Removal & Disposal | 440-08 | Cubic Yards | 0 |
| | Clearing Roadways Travel Lanes | 440-19 | Miles | 1 |
| | Disposal of Debris/Litter | 630-09 | Cubic Yards | 0 |
| | | | | |

Appendix B

After the Storm Brochure

&

Understanding Water Brochure



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力機能

www.epa.gov/npaes/etormwater

WYOIS BYI NAILIZ



What is soonwater raiself?



Stomwater runoff occurs when precipitation from rain or snowmelt flows over the ground. Impervious surfaces like driveways, sidewalks, and streets prevent stormwater from naturally soaking into the ground.





Stomwater can pick up debris, chemicals, dirt, and other pollutants and flow into a storm sewer system or directly to a lake, stream, diver, wetland, or coastal water. Anything that enters a storm sewer system is discharged untreated into the waterbodies we use for swimming, fishing, and providing diriking water.

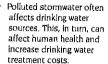
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The grade of the later

Polluted stormwater runoff can have many adverse effects on plants, fish, animals, and people.

- Sediment can cloud the water and make it difficult or impossible for aquatic plants to grow. Sediment also can destroy aquatic habitats.
- Excess nutrients can cause algae blooms. When algae die, they sink to the bottom and decompose in a process that removes oxygen from the water. Fish and other aquatic organisms can't exist in water with low dissolved oxygen levels.
- Bacteria and other pathogens can wash into swimming areas and create health hazards, often making beach closures necessary.
- Debris—plastic bags, six-pack rings, bottles, and cigarette butts—washed into waterbodies can choke, suffocate, or disable aquatic life like ducks, fish, turties, and birds.
- Household hazardous wastes like insecticides, pesticides, paint, solvents, used motor oil, and other auto fluids can poison aquatic life.
 Land animals and people can become sick or die from eating diseased fish and shellfish or ingesting polluted water.









Get Involved

connected with an Adopt-A Road coordinator in your area. Volunteers are encouraged to adopt TD's customer service to be the department. Contact the LA p clean. All supplies are provided gtions of state or federal highways to

to contact customer Gall 1-877-4LA-DOTD service.

debris in a vacant lot, or a sweeping yard waste into a storm drain, dumping You see someone

the incident online at illegal. Call customer service or report only harmful to the environment but do? Report it! These activities are not during dry weather. What should you storm water pipe or ditch discharging

Page=contact\$ construction/lab/ms4/home.asp? www.dotd.la.gov/highways/

of storm water pollution. And finally, educate others of the effect



FOR ADDITIONAL INFO CONTACT



Louisiana Department of

Materials and Testing Section Transportation & Development's

5080 Florida Blvd. Phone: 225-248-4141 Baton Rouge, LA 70806

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT Understandii

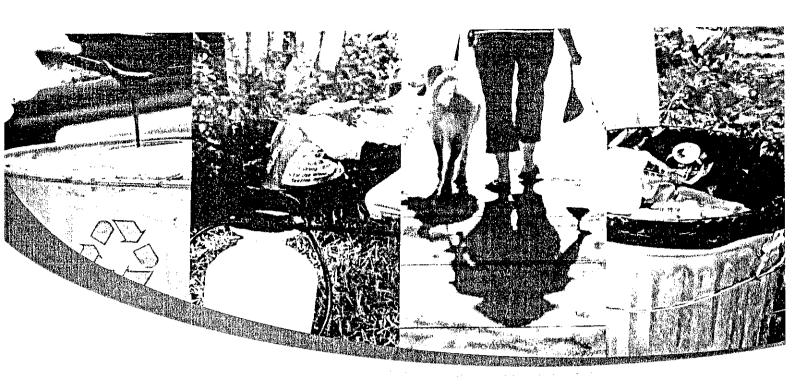
Stormwater

Louisiana's on the move DOTD builds the way

型物的 医皮肤切迹

Appendix C

Make Changes, Be the Solution! Poster



MAKE CHANGES WESTERSOLUTION

Everything you blow, spray, pour or throw on the ground can get washed down the storm drain – polluting Louisiana's waters

Recycle oil

Use less fertilizer and pesticides

Mulch or bag grass clippings

Bag pet waste

Don't litter



A DA

A The out incles if www.deencousana.cov

Appendix D

LPB Contracts, Broadcast Schedule and LPB Article



UNDERWRITING AGREEMENT:
Louisiana Public Broadcasting
7733 Perkins Road, Baton Rouge, LA 70810-1199
(225) 767-4466
(225) 767-4421 (FAX)
Jeanne S. Smith, Underwriting Director
jsmith@lpb.org

Louisiana Department of Transportation & Development: FELPB general support during prime time 2017-2018 (Page 1 of 2)

| Louisiana Dept. of Transportation and Development | Dori Turner, Environmental Impact Specialist |
|---|--|
| Sponsoring Company Name: | Contact Name and Title |
| 5080 Florida Boulevard | Baton Rouge, LA 70806 |
| Address: | City, State and Zip: |
| (225) 248-4178 | dori.turner@la.gov |
| Phone Number: | Email: |

This document will serve to verify and specify the conditions relating to an agreement between the Foundation for Excellence in Louisiana Public Broadcasting (FELPB) and the Louisiana Department of Transportation & Development Materials and Testing Section for providing general support to programming broadcast on Louisiana Public Broadcasting, (LPB):

General-support announcements

Schedule timeframe: June 30, 2017-June 29, 2018

Promotional Considerations:

Louisiana Department of Transportation & Development Materials and Testing Section will receive the following promotional considerations:

- Twenty, 20, (:30 second) messages supporting DOTD's Storm Water Campaign. Messages will air Sunday through Saturday during prime-time and How-to programming, June 30, 2017 through June 29, 2018.
- Twenty, 20, (:30 second) BONUS messages supporting DOTD's Storm Water Campaign, also airing Sunday through Saturday during prime-time and How-to programming, June 30, 2017 through June 29, 2018
- Messages should air, 3-4 per month, over the year-long schedule.
- One (1) "In Good Company" feature article in LPB Visions magazine (August 2018).
- Acknowledgement in the underwriter's section of Visions as a general support underwriter.
- · Acknowledgement in the underwriter's section of LPB.org.
- Louisiana Department of Transportation & Development website will be linked to LPB.org.

Preemptions:

Due to LPB's commitment to serve the community, dates and times of programs, repeats and underwriter acknowledgments are subject to change or cancellation without notice. When reasonably possible, LPB will reschedule the underwritten program to include applicable underwriter credits.

Louisiana Department of Transportation & Development/FELPB Agreement 2017-2018 cont'd (Page 2 of 2)

Cancellation Option:

The underwriter has the option to cancel this agreement after a minimum of 90 days from the date of the first airing, by providing a minimum of 30 days prior written notice of cancellation. During the 30 day period, LPB may continue to air the credits and the underwriter will be obligated for the contract amounts through the date of termination.

Contract Amount / Payment:

The Louisiana Department of Transportation & Development Materials and Testing Section agrees to pay the sponsorship rate of \$1,500 NET for sponsorship package listed on page one of this agreement. Sponsorship will be billed in one payment as follows: \$1,500.00 NET in May 2018. The sponsor agrees to remit invoice(s) within 30 days of invoiced date(s).

TOTAL AMOUNT: \$1,500.00 NET-May 2018

Default:

If the underwriter fails to make any payment when due, FELPB may, in addition to other remedies, discontinue airing any or all credits.

No Warranties:

The underwriter is solely responsible for selecting the program(s) it wishes to underwrite, and FELPB makes no warranties, implied or express, regarding such program(s).

By the signatures below, the sponsor and FELPB agree to perform the mutual obligations as outlined above in accordance with all terms and conditions of this sponsorship agreement.

Effective Date: June 30, 2017

End Date: June 29, 2018

Sponsor approval by:

Foundation for Excellence in LPB approval by:

Witness:

- (a/X/19

Witness:

Date



UNDERWRITING AGREEMENT:
Louisiana Public Broadcasting
7733 Perkins Road, Baton Rouge, LA 70810-1199
(225) 767-4466
(225) 767-4421 (FAX)
Jeanne S. Smith, Underwriting Director
jsmith@lpb.org

Louisiana Department of Transportation & Development: FELPB general support during prime time 2018-2019 (Page 1 of 2)

Louisiana Dept. of Transportation and Development

Sponsoring Company Name:

Dori Turner, Environmental impact Specialist
Contact Name and Title:

5080 Florida Boulevard

Address:

Baton Rouge, LA 70806
City, State and Zip:

(225) 248-4178

Phone Number:

Dori Turner, Environmental impact Specialist
Contact Name and Title:

Baton Rouge, LA 70806
City, State and Zip:

dori,turner@la.gov
Email:

This document will serve to verify and specify the conditions relating to an agreement between the Foundation for Excellence in Louisiana Public Broadcasting (FELPB) and the Louisiana Department of Transportation & Louisiana Public Broadcasting, (LPB):

General-support announcements

Schedule timeframe: June 30, 2018-June 29, 2019

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Louisiana Department of Transportation & Development/FELPB Agreement 2018-2019 cont'd (Page 2 of 2)

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TOTAL AMOUNT: \$1,500.00 NET-May 2019

Default:

If the underwriter fails to make any payment when due, FELPB may, in addition to other remedies, discontinue airing any or all credits.

No Warranties:

The underwriter is solely responsible for selecting the program(s) it wishes to underwrite, and FELPB makes no warranties, implied or express, regarding such program(s).

By the signatures below, the sponsor and FELPB agree to perform the mutual obligations as outlined above in accordance with all terms and conditions of this sponsorship agreement.

Sponsor approval by:

Date: 6 1918

Witness:

Date: 4 Date: 4

Report date: 01/07/2019 Report time: 09:52:29

Fram: 01/01/2018 To: 12/31/2018

Log Performance Report Page: 1

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| at 18:59:20 | CART Tape/Cut |
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| | 00:30:04 07/16/18 SMTWTFS LUC DV 2006-2007 |

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Report date: 01/07/2019 Report time: 09:52:29

From: 01/01/2018 To: 12/31/2018

Log Performance Report Page: 3

Video Source CART Title Available Notes

Audio Source Tape/Cut Type Sub-Title Length From/To DAYS

LGS12-15 GS GSA: DOTD-LA DEPT OF TRANSP & DEV 00:30:04 07/16/18 SNTWTFS LUC DV 2006-2007 06/29/19 YYYYYYY UPDATED 6/30/2014 Video Source

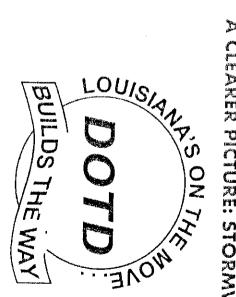
This item appeared 99 times between 01/01/2018 and 12/31/2018.





IN COLDING COMINANY

A CLEARER PICTURE: STORMWATER



stormwater. deeper into how these activities can affect seemingly perfect activities on a great day. right? Let's take a moment to look a little their pets. To the common eye, these are washing their vehicles, and others walking are watering and fertilizing lawns, some carrying out daily/weekly routines. People day - everyone around the neighborhood is Picture this: a beautiful sunny summer

contain chemicals or reagents that are not a treatment system prior to entering storm necessarily safe for the environment. If it wastewarer, stormwater does not go through Fertilizers and washing detergents may drains and waterways, so that means it's clean so important you may ask? Unlike waterways. So why is keeping stormwater untreated, unfiltered water. lors, etc. directly into storm drains and/or ice melt. It flows over land, streets, parking precipitation events such as rain and snow. Stormwater is water that originates from

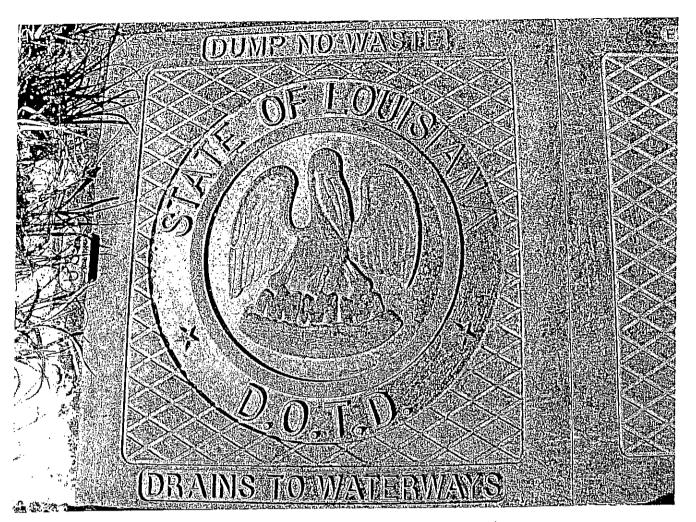
> to environmental safe and natural produc water quality. Some companies are turnin to assist with these issues. this can cause harm to marine lite and into the nearest storm drain or waterway. rains, the runoff eventually makes its way

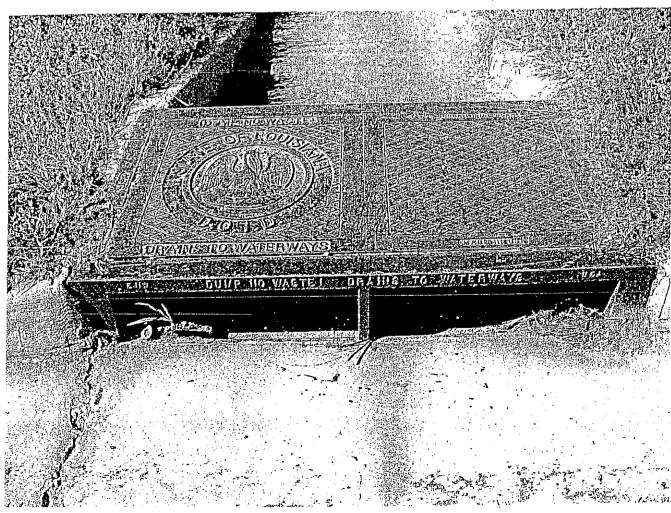
the Drain. others informed. Remember, "Only Rain take the necessary precautions and keepin all can take responsibility making sure we great impact toward the ultimate goal. We with stormwater. Little things can have a minimize pollutants entering waterways can make a difference in the campaign to used during routine activities. Everyone stormwater is being mindful of products waste properly. A few keys to protecting help by picking up and disposing of per How can you help? Pet owners can

visit: wwwsp.dotd.la.gov/Inside_LaDOTT Pages/default.aspx. Divisions/Engineering/Materials_Lab/MS For more information about stormwate

Appendix E

Catch Basin Cover Photograph





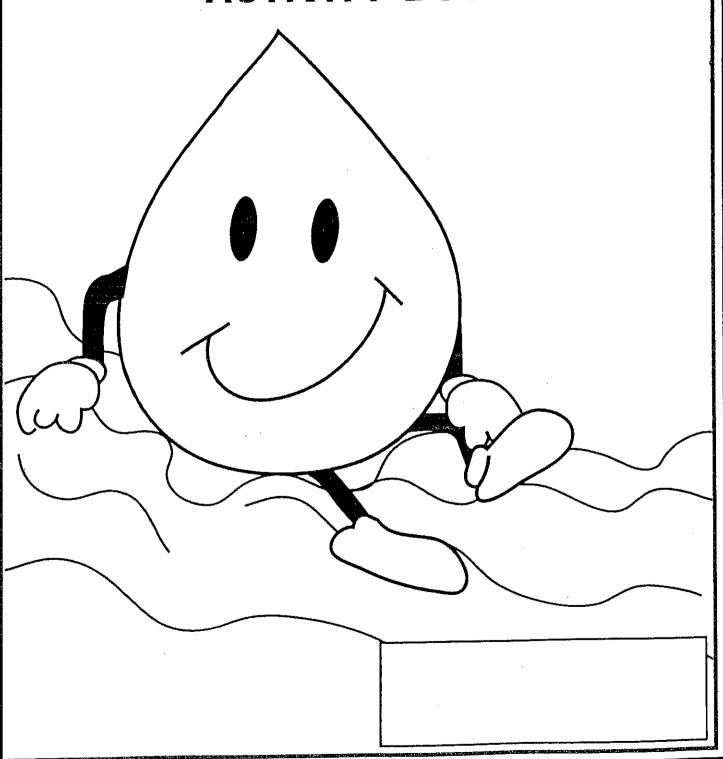
Appendix F

Educational Materials Packets

ACTIVITY BOOKLET

Be a Solution to Water Pollution

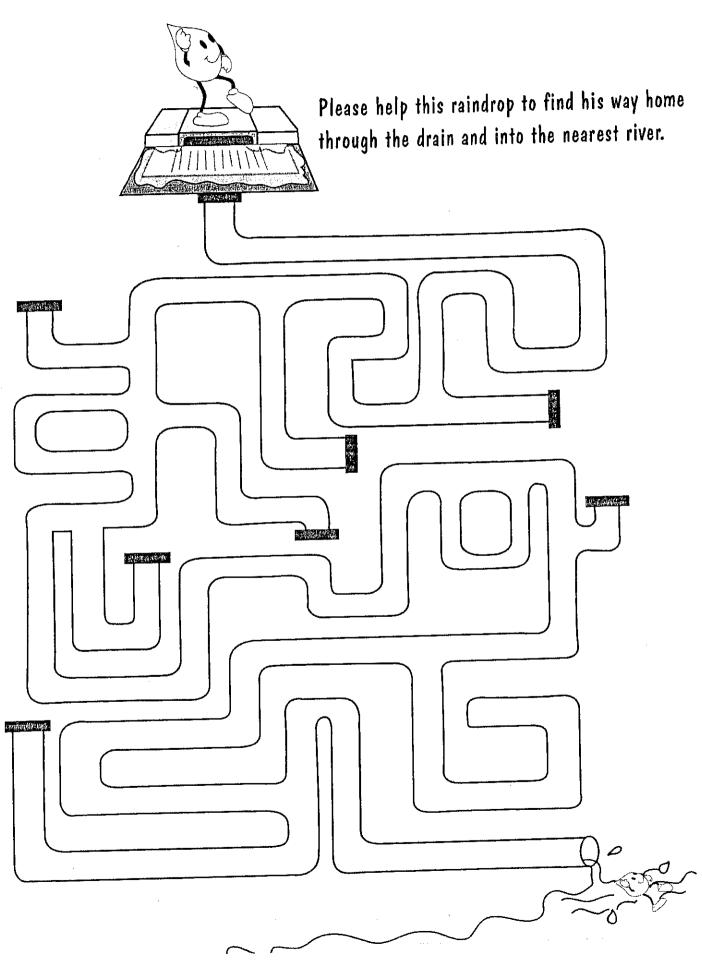
ACTIVITY BOOK

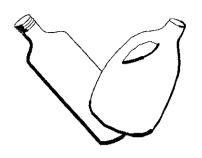


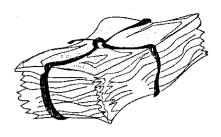
Have you ever walked next to a stream and seen trash floating in the water? Do you know how it gets there? Every time it rains, the water runs off the land and picks up pollutants such as dirt, oil, pet waste, litter, trash, pesticides and fertilizers. This polluted water flows into street drains and ditches that eventually drain to waterways. Never dump anything that you would not want to drink or swim in on the ground, in the street or down a storm drain. It will go into a river, lake or stream.



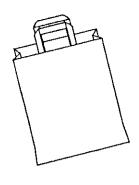
Waterdrops go through an amazing journey to get to streams and creeks.















We can "Be a Solution to Water Pollution" by recycling cans, bottles, milk jugs, plastic bags and newspapers at home or in school.



Below is a list of scrambled words, which stands for items that can be recycled.





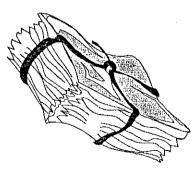


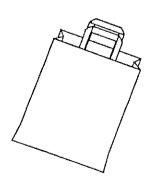
4. slaptic _____

5. likm sugj _____

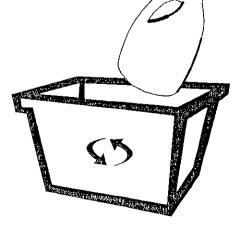
6. ulamniunm acns











Working in the garden or on a lawn is a fun activity to do with grown-ups. When helping to clean a yard, remember not to dump anything down a storm drain or in the street. Can you find what is wrong with this picture?

Circle the mistakes that the people in this drawing are making.

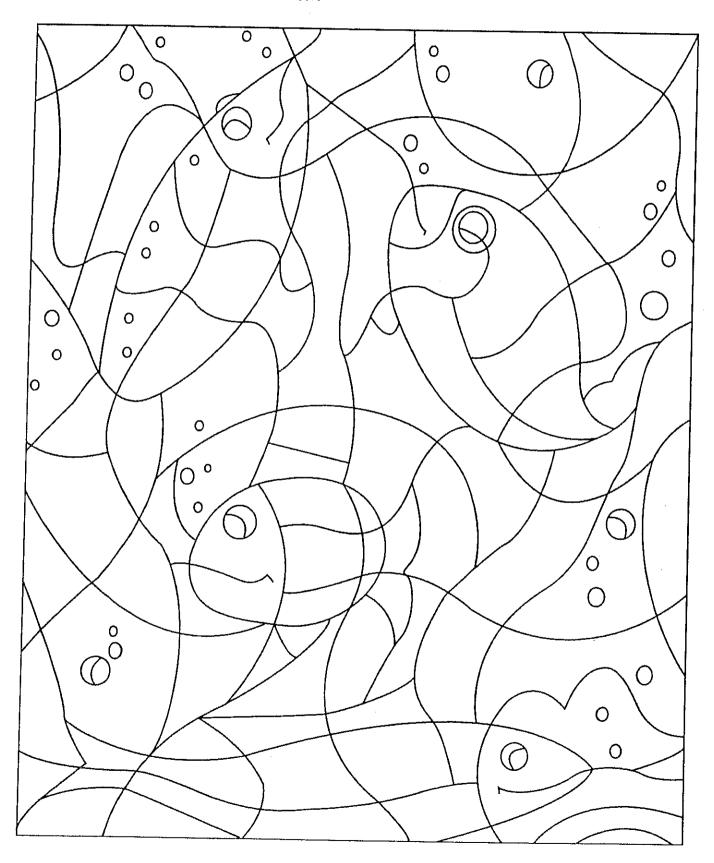


It is important to cleanup after your dog. Every time it rains, "poop" is collected by rainwater and dumped into a nearby storm drain or into a river, lake or stream. Carry a plastic or paper bag with you to pick-up after dogs and throw it in the trash.



Fish and other aquatic life rely on clean water. Plastic bags, oil, other chemicals and other pollutants cause harm to fish.

Find the fish and color them in.



Can you find all of the things in the creek that do not belong?



Good job! Ask your parent, teacher or troup leader to help you cut out your badge.





For additional information please visit our website at http://www.dotd.la.gov/highways/construction/lab/ms4/home.asp

or contact

Louisiana Department of Transportation & Development

Materials and Testing Section

5080 Florida Blvd.

Baton Rouge, LA 70806

Phone: 225-248-4141

You too can help! Please visit

DOTD Adopt-A-Road Program:

http://www.dotd.la.gov/programs_grants/adopt/home.aspx

Keep Louisiana Beautiful:

http://keeplouisianabeautiful.org/

The Be a Solution to Water Pollution Activity Book was reproduced with permission from the

Clean Water Campaign

40 Courtland Street, NE

Atlanta, GA 30303

Email: info@cleanwatercampaign.com

Website: http://www.cleanwatercampaign.com/html/index.htm

STICKERS













Muck! Yuck!



ima Clean Water Action Hero

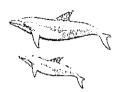
Leaves don't belong in the stormdrain & Res

Junk from the Gutter



Makes us Sputter

Please Don't Pour



That's Our Front Door

oil & Water



Please Don't Mix!

BOOKMARK





10 Things You Can Do to Prevent Stormwater Runof Pollution

- Use fertilizers sparingly and sweep up driveways, sidewalks, and gutters
- Never dump anything down storm drains or in streams
- C Vegetate bare spots in your yard
- Compost your yard waste
- Use least toxic pesticides, follow labels, and learn how to prevent pest problems
- Direct downspouts away from paved surfaces; consider a rain garden to capture runoff
- Take your car to the car wash instead of washing it in the driveway
- Check your car for leaks and recycle your motor oil
- Pick up after your pet
- Have your septic tank pumped and system inspected regularly



For more information, visit www.epa.gov/nps or www.epa.gov/npdes/stormwater

Appendix G

Public Records Request Form



Louisiana Department of Transportation and Development PUBLIC RECORDS REQUEST FORM

http://www.dotd.la.gov

| | | | | | | Date |
|--|--|----------------------------------|--|--|--|---|
| STEP 2: SU P.(dot STEP 3: WA | JBMIT completed for O. BOX 94245, Bate to the state of th | orm by either U.son Rouge, LA 70 | S. First Class M 0804-9245, by ATTACH PAYI costs. Once re | y. //ail to DOTD C fax to (225) 24 MENT WITH T eccived, send p | ustodian of Re 2-4690 or by e HIS FORM, payment (Chec | have questions, please ecords, HQ – EW 3 rd Floor, mailing your request to: k or money order ONLY). yment. If 10 (ten) working initiate a new request. |
| NAME: | | | | | | |
| COMPANY/FIRM: | | | | | Payment I | Method & Authorization |
| MAILING ADDRESS: | | | | | | R MONEY ORDER ONLY Outloation Fees |
| CITY: | | _STATE: | ZIP: | ₹. | Regular rate: | \$0.25 per page |
| TELEPHONE NO.: (EMAIL ADDRESS: ROUTE/HWY (No street | | FX.: (| | | Spec Sheets: Plan sheets: CDs or Disks; | (8½X11 & 8½X14) \$0.50 per page (11X17) \$1.10 per page (24X36) \$5 per disk + \$25 per Hr. data processing fee |
| | | | | 70.5 | *Research may | require additional fees |
| PROJECT- LEGACY- F | | 74. | | | | |

Requestor Information (Please Type or Print)

To expedite your request, be as specific as possible. Attach additional pages to the form as necessary. Include street address of the facility, the document dates, and other details about the type of record of interest to you. Official R/O/W maps are located at the Parish District Court. ** Due to the large volume of some state project records, it may be necessary for the custodian to take additional time to accumulate the info from all sections. In this case, it is required that the requestor review the records to be duplicated.

Appendix H

MS4 Outfall Survey & Illicit Discharge Visual Screening Form



Louisiana Department of Transportation and Development

Illicit Discharge Visual Screening

| Date: | | | Investigator: | | | | | |
|----------------------|-----------------------------|-----------------|--------------------------------|--|--|--|--|--|
| Municipality: | | | Outfall ID: | | | | | |
| Location: | | | | | | | | |
| | ie of inspection: OYes | | Photo taken: □Yes □No Photo #: | | | | | |
| : If VEC gommlete | montion A IENO -1: | | | | | | | |
| ii YES, complete | section A. If NO, skip s | ection A and co | omplete section B. | | | | | |
| | | | | | | | | |
| | | Sec | ction A-Discharge Present | | | | | |
| | | | | | | | | |
| Odor | □Yes □No | | | | | | | |
| Foam | □Yes □No | | | | | | | |
| Color Sheen | ☐Yes ☐No ☐Yes ☐No | | | | | | | |
| Turbid | □Yes □No | <u> </u> | | | | | | |
| Floatables | Yes ONo | <u> </u> | | | | | | |
| Vegetation | □Yes □No | | | | | | | |
| Smoke/Vapor | □Yes □No | | | | | | | |
| Address: | | | | | | | | |
| EU-87-George | | | n B-No Discharge Present | | | | | |
| Is there any evider | nce of previous illicit dis | scharge? 🗆 Yes | 5 ONo | | | | | |
| If YES, please descr | ribe below. | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Potential Source of | lllicit Discharge: | | | | | | | |
| | | | | | | | | |
| Address: | | | | | | | | |
| | | | Section C | | | | | |
| Comments | | | | | | | | |
| | | | • | | | | | |
| | | | | | | | | |
| | | | | | | | | |



Louisiana Department of Transportation and Development

MS4 Outfall Survey

GENERAL DATA

Photo: ☐Yes ☐No

Photo number:

| Date: | | <u>_</u> | nvestigator: | | | | |
|------------------|-------------|-------------|---------------|---------------------------------------|-------|---------------------------------------|-----|
| Parish: | | | Aunicipality: | | | | |
| Route: | | | · | | - " | | |
| FIELD DATA | | | | | | | |
| Outfall ID: | | | | | | | |
| Location/Address | s: | | | | | | |
| | | | | | | | |
| <u>Latitude:</u> | | <u>Lo</u> | ngitude: | | | | |
| Receiving Water: | | | | · · · · · · · · · · · · · · · · · · · | | Impaired: □Yes | □No |
| | | Land | d Use: | | | | |
| □Industrial | Residential | □Commerc | cial 🗅 | Open Space | | Other: | |
| OUTFALL DESCRI | PTION | | | | | | |
| | Pipe | 1-11 - 1-12 | | | Ditch | | |
| Material Type | | | Material Type | | | · · · · · · · · · · · · · · · · · · · | |
| Pipe Height | | | Depth | | | | |
| Pipe Width | | | Width | | | | |
| | | NO. | TES | | | | |
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Appendix I

Illicit Discharge Detection and Elimination Training Form, Employee Quiz & Wastewater Recertification Agenda



Acknowledgment of Training

| (This top section should b | be filled in by the trainer) |
|--|--|
| Signature(s) below are acknowledgment that on (dat | e) |
| these individuals participated in a training session at | |
| Location Name: | The state of the s |
| Address: | |
| Given by: (trainer's name) | |
| (title) | |
| This training session presented information on illicit During this session, the individuals listed below view | discharge detection and elimination. red the training video: |
| IDDE: a grat | e concern |
| The participants' signatures below affirm they were g their particular job activities and how they could best | iven adequate time to ask questions about conduct these activities. |
| Please read the above paragr | aph before signing below. |
| PRINT NAME HERE | Signature Here |
| | |
| | |
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| | |
| | |

a grate concern

| Employee | Quiz |
|----------|------|
| • | |

| Name | |
|-------|------|
| Dept. | Date |

The following questions all have multiple choice answers. Please circle the best answer for each question.

- 1. Pure stormwater run-off...
 - a. is cloudy.
 - b. is foamy.
 - c. is clear and bright.
 - d. has a rainbow sheen.
 - e. all of the above
- 2. What information about a suspected illicit discharge would not be useful to collect and report?
 - a. weather conditions
 - b. date and time
 - c. location
 - d. description of the discharge
- 3. How long after the last significant rainfall should flow in a stormwater outfall make you suspicious?
 - a. 1 hour
 - b. 8 hours
 - c. 1 day
 - d. 2-3 days
- 4. Municipal separate storm sewer systems are designed to perform only the following function:
 - a. clean-up stormwater run-off
 - b. control and divert stormwater run-off
 - c. treat stormwater run-off
 - d. treat sanitary wastes
- 5. Which of the following materials are common illicit discharges?
 - a. pet wastes
 - b. grass clippings
 - c. paint wastes
 - d. trash
 - e. all of the above
- 6. Which of the following materials should never be disposed in a non-leak tight outdoor dumpster or trash can?
 - a. paper and plastic
 - b. any liquids
 - c. floatables
 - d. broken concrete
- 7. Which of the following would be suspicious if observed at a stormwater outfall?
 - a. vapors or furnes
 - b. dead or dying vegetation
 - c. discolored water
 - d. all of the above

- 8. What does a 'rainbow sheen' on stormwater indicate?
 - a. a recent rain storm
 - b. waste paint
 - c. gasoline
 - d. sewage contamination
- 9. Which of the following types of operations can be a source of illicit discharges?
 - a. private homes
 - b. industrial facilities
 - c. restaurants
 - d. municipal facilities
 - e. all of the above
- 10. A stained storm drain inlet is probably a sign of...
 - a. recent MS4 maintenance work.
 - b. a marking to indicate it needs repair.
 - c. past illicit discharges.
 - d. dye testing.
- 11. Everything that enters an MS4 eventually winds up in...
 - a. a sanitary sewer treatment works.
 - b. an underground aquifer.
 - c. a drinking water treatment plant.
 - d. a stream, river, lake or bay.
- 12. Which of the following are allowed in municipal separate storm sewer systems (MS4s)?
 - a. rainwater run-off
 - b. sanitary wastes from hospitals and long-term care facilities

 - d. floor mat rinse water
- 13. What is the most likely illicit discharge from a construction site?
 - a. silt and sediments
 - b. waste oil
 - c. floatables
 - d. pet wastes
 - e. waste pesticides
- 14. A suspected illicit discharge from which of the following types of operations would not need to be reported?
 - a. apartment complex
 - b. retail shopping center
 - c. service station
 - d. public park
 - e. report all of them
- 15. What could cause a strong odor at a stormwater outfall?
 - a. sanitary sewage
 - b. garbage
 - c. gasoline
 - d. any of the above

Wastewater Recertification Topics for Discussion Wednesday, August 29, 2018

| Topic | Time |
|---|--------------------|
| Introduction, Agenda Mr. Joubert Harris | 8:00 - 8:15 a.m. |
| Program Update Mr. John Holdcraft | 8:15 - 8:30 a.m. |
| Groundwater Protection and Your Septic System Ms. Kenya Lewis | 8:30 - 9:15 a.m. |
| EPA Drinking Water and Health: What You Need To Know Mr. Nicholas Larks | 9:15 - 10:00 a.m. |
| Stormwater Video Ground Control | 10:00 - 10:30 a.m. |
| Combined Sewer Overflows Ms. Nikita Simon | 10:30 - 11:15 a.m. |
| Stormwater Inspections: What to Expect When You're Inspecting Mr. Roy Lowery | 11:15 - 12:00 p.m. |
| Lunch Break | 12:00 - 1:00 p.m. |
| Sand Filters Mr. Nicholas Larks | 1:00 - 1:45 p.m. |
| Vorking With Nature to Purify Sewage As. Kenya Lewis | 1:45 - 2:30 p.m |
| tormwater Video licit Discharge Detection & Elimination | 2:30 - 3:00 p.m. |
| ealth Hazards Due to Wastewater Exposure ls. Nikita Simon | |
| racking Effects on Wastewater r. Roy Lowery | |
| | |

Appendix J

Construction Inspection Forms

&

Construction Stormwater Field Guide

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT STORM WATER POLLUTION PREVENTION PLAN Inspection and Maintenance Report Form

Erosion Control Measures

To be completed every 7 days and within 24 hours of a rainfall event of 0.5 inches or more

| nspector | Date | | | | | | |
|---|-----------------|--------------------------------|--------------------------------|-----------------------------|---|--|--|
| S.P. No | | | | | | | |
| Contractor | | | | | | | |
| Jays Since Last R | ainfall: | | | Amount of | Last Rainfall | | |
| Station No. | Lt./Rt. | Type | Does Silt Need Removal ? | Is Erosion Item Stable ? | Is There Evidence Of Washout or Over-Topping? | Condition & Comments on Effectiveness | |
| | | | | | | | |
| 44 | | | | | | | |
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| ntenance require | ed for Ero: | sion Cor | itrol Measur | | | | |
| , | | | or mougu | es. | | | |
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| | | | | | · | | |
| | | | | | | | |
| .e performed by: | | | | On | or Before: | | |
| s of Measures: | | | | | or Before: | • | |
| it Fence ay/Straw Bales y Check Dam | F - SI G- Te | ediment ope Drai mporary | | I - Mai J - Ott | _ | | |

Louisiana Department of Transportation and Development Storm water Construction Site Inspection Report

| | | Ceneral Information | |
|--|--|-------------------------------|---------------------------|
| Project Name | | General Information | |
| Permit Number | | Location | |
| Date of Inspection | | Start/End Time | |
| Inspector's Name | | Start/End Time | |
| Inspector's Title | | | |
| Inspector's Contact | | • | |
| Information | | | |
| Describe present phase of construction | of | | |
| Type of Inspection | | | |
| | storm event DE | Ouring storm event | word D Other |
| Weather at time of inspe | ction? | at mg storm event | vent Other |
| | | | |
| | | | |
| NOI available, if applicab | ole? Permit availa | Records | |
| | T GITHIC AVAILA | ble? Current SWP | PP? Current site n |
| □Yes □No | □Yes □No | O DYes DN | o □Yes □N |
| Are the self inspections cu | rrent? | | |
| □Yes □No | | D / 41 | , |
| Corrective action log avail | able? | Date of last self inspection: | |
| _ | | | |
| □Yes □No | | | |
| | BMP Installed | ite'Specific BMPs | |
| BIMP Description | & Operating | 内心的 100 mm (1997) 110 mm | Proposed date for correct |
| F - DIME Description. | Properly? | Corrective Action Needed | |
| | | | action & responsible pers |
| | ☐Yes ☐No | | action & responsible pers |
| | ☐Yes ☐No | | action & responsible pers |
| | ☐Yes ☐No ☐Yes ☐No | | action & responsible pers |
| | ☐Yes ☐No ☐Yes ☐No ☐Yes ☐No | | action & responsible pers |
| | ☐Yes ☐No ☐Yes ☐No ☐Yes ☐No ☐Yes ☐No | | action & responsible pers |
| | ☐Yes ☐No ☐Yes ☐No ☐Yes ☐No ☐Yes ☐No ☐Yes ☐No ☐Yes ☐No | | action & responsible pers |
| | □Yes □No □Yes □No □Yes □No □Yes □No □Yes □No □Yes □No | | action & responsible pers |
| | ☐Yes ☐No | | action & responsible pers |
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| | □Yes □No | | action & responsible pers |
| | □Yes □No □Yes □No | tall.Site Features | action & responsible pers |

| | | stabilized? | | ∐Yes □ | No | □Yes □ | Na I | | | 1 | | | | |
|------|-----------------|---|----------------|-----------------|----------|----------|----------------|-------------|-----------------|---|--------------|--------------|------|------------|
| | 2 | Are natural resource | | | | | | | | - | | | | |
| | | (e.g., streams, wetland | ds, | | | | 1 | | | - } | | | | |
| | | mature trees, etc.) | | | | } | 1 | | | ł | | | | |
| | 1 | protected with barriers | sor | | | | j | | | ĺ | | | | |
| | 3 | similar BMPs? | | □Yes □1 | 40 | □Yes □ | No | | | | | | | |
| |) 3 | Are perimeter controls sediment barriers | 1 86 | | | 1 | | | | | | | | |
| | } | adequately installed an | ا ہے | | | } | | | | | | | | |
| | 1 | maintained? | , | □Yes □N | | | _ | | • | | | | | |
| | 4 | Are discharge points at | 10 | CI CS CIN | 0 | □Yes □ì | 10 | | | | | | | |
| ļ | | receiving waters free or | | | | | | | | , | | | | |
| - [| | sediment deposits? | | □Yes □N | 0 | □Yes □N | . | | | | | | | |
| | 5 | Are storm drain inlets | | | | 702 - | | | | | | | | |
| }. | | properly profected? | | □Yes □No |) | □Yes □N | 0 | | | | | | | |
| | 6 | Is there evidence of | | | | | | | | 1 | | | | |
| } | - 1 | sediment being tracked into the street? | 1. | | | | - } | | | | | | | |
| - | 7 | Is trash/litter from work | | ∃Yes □No | | □Yes □N | 0 | | ` | | | | | |
| | 1 | areas collected and place | | | | | | | | | | | | |
| | | in covered dumpsters? | r | lYes □No | | | | | | | | | | |
| - }- | 8 | Are washout facilities | | 1162 (1140 | | □Yes □No | } | | | ļ | | | | |
| - | | (e.g., paint, stucco, | - | | | | | | | | | | | |
| 1 | | concrete) available, | | • | - 1 | | | | | | | | | |
| | | clearly marked, and | 1 | | - | | | | | | | | | |
| _ | | maintained? | | Yes □No | 10 | ∃Yes □No | | | | | | | | |
| 19 | | Are vehicle & equipment | 1 | | | | | | | | | | | { |
| | | fueling, cleaning, and | . | | - | | | | | | | | | |
| | | naintenance areas free of pills, leaks, or any other | | | | | 1 | | ł | | | | | - 1 |
| 1 | ارا | leleterious material? | | Yes □No | ٦, |)3/ C)/ | 1 | | | | | | | - 1 |
| 10 | | re materials that are | - | 1 C2 CT140 | ⊹ | lYes □No | - | | | | | | | _ |
| | | otential stormwater | 1 | | | | [| | - 1 | | | | | - 1 |
| | C | ontaminants stored | Ĭ | | İ | | 1 | | | | | | | |
| | | side or under cover? | ΠY | es 🗆 No | | Yes □No | • | | 1 | | | | | - |
| ΙI | , | re non-stormwater | | | | | | | | | | | ···· | \dashv |
| | | scharges (e.g., wash | ĺ | | | | | | - 1 | | | | | |
| | | ater, dewatering) | | | 1 | | | | | | | | | |
| 12 | | operly controlled? | LY | es UNo | Ι α | Yes □No | | | | | | | | } |
| 12 | | e there any discharges time of inspection? | | | l | _ | | | | | | | * | \exists |
| | | time of mspectron? | LIYE | s DNo | Ш, | Yes □No | | | | | | | | |
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| 13 | | | QYе | s 🗆 No | Пγ | es □No | | | } | | | | | |
| | | | | | | 03 4110 | <u> </u> | | | | | | | \dashv |
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| | | | | ĺ | | } | | | } | | | | | |
| 4 | | | □Yes | □No | ПΥ | es 🗆 No | | | | | | | | |
| l | ! | | | 1 | | | | | | | | | | 7 |
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| ا ء | | 1, | | _ | | | | | | | | | | |
| 5 | | | Yes | □N ₀ | UΥ | s 🗆 No | | | | | | | | |
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| ; | | The State of Bridge Committee | 1151. | rely to the | | | | | | , | | | · | - , |
| 1600 | <i>J. (p.)</i> | | | | | Notes | | | | 10 1 10 10 10 10 10 10 10 10 10 10 10 10 10 | | | | 1 |
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| | Inspector Certification |
|-------------|-------------------------|
| Print Name: | |
| Signature: | |
| Date: | |

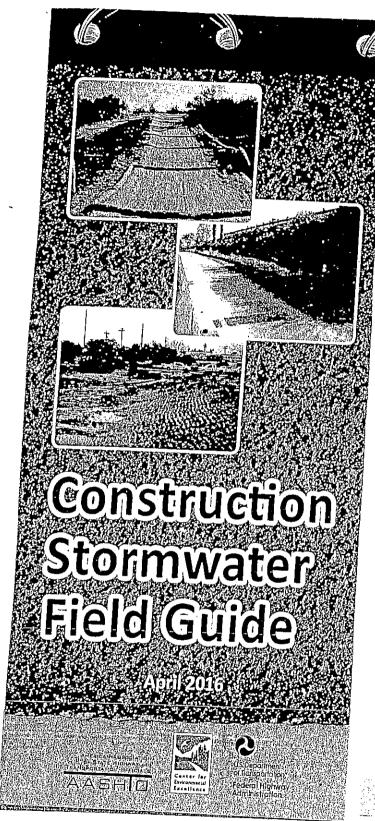




Table of Contents

| Chapter 1. Introduction (|
|--|
| Chapter 2. Pollution Prevention and General Housekeeping |
| Material and Waste Management |
| Street Cleaning |
| Protection of Permanent BMPs |
| Illegal Discharges |
| Paving and Concrete Construction |
| Non-Stormwater Management |
| • |
| Chapter 3. Sediment Control |
| Perimeter Controls |
| Dewatering |
| Sediment Traps and Basins |
| Chapter 4. Erosion Control |
| Surface Roughening |
| Tackifier and Binders 55 |
| Hydroseeding59 |
| Mulching 61 |
| Rolled Erosion Control Products 63 |
| Chapter 5. Temporary Drainage Management 68 |
| Stream Crossing and Bank Stabilization |
| Temporary Berms |
| Storm Drain Inlet Controls |
| Slope Drains |
| Temporary Check Dams |
| Outlet Protection |
| |
| eferences 94 |
| |

Table of Contents

Appendix K

De-icing/Anti-icing Agents-Statewide

URBAN AREA MONTHLY USAGE: AGGREGATE, LIGHTWEIGHT

(YD3 - Cubic Yard)

| | | | | | 2018 | ~ | | | | | | | |
|--|-------------|-----------|---------|-------|------|------------|---------|-------|-----------|---------|---|----------|---------------------|
| Urban Area | January | February | | | "一 | | | İ | | | | | |
| Abbeville Regulated Area | Т | - coldaly | Maici | April | May | nue | / An | ugust | September | October | August September October November | December | December 2018 Total |
| Spenier Inguisted Alea | | | | | | | 0.5 | | 7 | 000 | | | |
| Baton Rouge Urbanized Area | 16.0 | | | | | + | ? | | T:O | 7.0 | | 3.0 | 6.5 |
| | | | | | | | | | | | | | 10.0 |
| Laidyette Urbanized Area | | | | 2.0 | S.E. | 2 7 | , | , | | | | | T0.U |
| | | | | 2:5 | ? | · | 0,0 | C.T | 0.1 | | У | | ָר כר ר |
| Lake Charles Urbanized Area | 57.0 | | 19.5 | × | 90 | 3 5 | 2 | , | | | | | ZU.0 |
| · · · · · · | | | | 7.5 | 0.5 | <u>.</u> . | 0.0 | 7. | 17.5 | ~ | 4.0 | 0 0 | |
| Wandeville-Covington Urbanized Are | 60.4 | | | | | - | | | | | | | 129.3 |
| | | | | | | | _ | | | | | | 1 60 4 |
| Grand Total | 133.4 | 0.0 | 19.5 10 | 10.1 | 7.1 | 7.7 | × | 46 | 100 | | | | |
| Date Range: January 1 2018 to Docombor 31 2010 | hor 24 2040 | | | | | | 2 | 2.5 | 10.0 | n.u. | 5.7 | 0.9 | 232.7 |

MAINTENANCE UNIT MONTHLY USAGE: AGGREGATE, LIGHTWEIGHT

(YD3 - Cubic Yard)

| | | | | 2018 | 18 | | | | | | | | |
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| DUI/GOTO - KUADWAY MAINT | 57.0 | | 19 5 | 8 1 | 90 | 0 | 2 | ; | | | 25 | 7.5 | 13.8 |
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| 117 439 | D03/G550 - MAINTENANCE/RD MAINT | 417 | | | 417 |
| 1159 139 177 177 177 178 | D03/G560 - MAINTENANCE/RD MAINT | 117 | | | 117 |
| INT 341 S182 2182 1786 1097 T 6421 T 6421 T 518 | D03/G570 - MAINTENANCE/RD MAINT | 439 | | | 439 |
| INT 341 | D03/G580 - MAINTENANCE/RD MAINT | 77 | | | 77 |
| 7182 1786 1097 4417 820 1159 518 | D03/G765 - ROADSIDE MAINT/RD MAINT | 341 | | | 341 |
| 1786 1097 4417 | D04/G510 - ARCADIA/CASTOR UNITS | 2182 | | | 2182 |
| T 4417 F 6421 820 1159 | D04/G520 - HOMER UNIT/MAINT | 1786 | | | 1786 |
| T 6421 820 1159 1159 518 | D04/G530 - MINDEN/LETON UNITS | 1097 | | | 1097 |
| F 6421 820 1159 718 518 | D04/G540 - BOSSIER/PLAIN DEALING | 4417 | | | 4417 |
| 820 1159 518 | D04/G550 - SHREVEPORT/VIVIAN UNIT | 6421 | | | 6421 |
| 1159 | D04/G560 - MANSFIELD UNIT/MAINT | 820 | | | 820 |
| 518 | D04/G570 - COUSHATTA UNIT/MAINT | 1159 | | | 1159 |
| | D05/G510 - MAINTENANCE/MONROE | 518 | 104 | | 622 |

| D05/G520 - MAINTENANCE/MONROE | 816 | 5 | 3 | 824 |
|--|------|-----|-----|------|
| D05/G530 - MAINTENANCE/MONROE | 486 | | | 486 |
| D05/G540 - MAINTENANCE/MONROE | 354 | 70 | | 424 |
| D05/G550 - MAINTENANCE/MONROE | 1922 | 575 | 80 | 2577 |
| D05/G560 - MAINTENANCE/MONROE | 735 | 147 | | 882 |
| D05/G570 - MAINTENANCE/MONROE | 2353 | 294 | | 2647 |
| D05/G580 - MAINTENANCE/MONROE | 176 | 20 | | 196 |
| D05/G590 - MAINTENANCE/MONROE | 239 | 25 | | 264 |
| D05/G760 - CONCRETE REPAIR | 1070 | | | 1070 |
| D07/G520 - DERIDDER/MAINT | 226 | | | 226 |
| D07/G540 - JENNINGS/MAINT | 442 | | | 442 |
| D07/G570 - CREOLE/MAINT | 2 | | | 2 |
| D07/G580 - OBERLIN/MAINT | 144 | | | 144 |
| D07/G720 - BRIDGE MAINTENANCE | 2516 | | | 2516 |
| D08/G510 - MAINTENANCE/ALEX | 1603 | 6 | | 1612 |
| D08/G520 - MAINTENANCE/MARKSVILLE | 1284 | | | 1284 |
| D08/G530 - MAINTENANCE/MANY | 354 | | | 354 |
| D08/G540 - MAINTENANCE/LEESVILLE | 345 | | | 345 |
| D08/G550 - MAINTENANCE/NATCHITOCHES | 792 | | | 792 |
| D08/G560 - MAINTENANCE/WINNFIELD | 382 | | | 382 |
| D08/G570 - MAINTENANCE/DRY PRONG | 285 | | | 285 |
| D08/G710 - DISTRICTWIDE ROAD MAINTENANCE | 945 | | | 945 |
| D08/G720 - BRIDGE MAINTENANCE/ALEX | 170 | | | 170 |
| D08/G750 - DISTRICTWIDE SIGN CREW | 530 | | | 530 |
| D08/G751 - DISTRICTWIDE ELECTRICIANS | 100 | | | 100 |
| D58/G510 - CALDWELL PRH/MAINT | 343 | | | 343 |
| D58/G520 - FRANKLIN PRH/MAINT | 188 | | | 188 |
| D58/G530 - TENSAS PRH/MAINT | 114 | | | 114 |
| D58/G540 - CATAHOULA PRH/MAINT | 103 | | *** | 103 |
| D58/6550 - CONCORDIA PR/MAINT | 110 | | | ! |

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| 30 | | | 30 | COLUMN TO THE PLANE OF THE PLAN |
| 124 | | | 124 | D62/G765 - ROADSIDE DEVELORATION |
| 1446 | | | 1440 | D62/G580 - MAINTENANCE/MAINT |
| CIT | | | 1446 | D62/G570 - MAINTENANCE/MAINT |
| 72.5 | | | 175 | D62/G560 - MAINTENANCE/MAINT |
| 384 | | | 384 | D02/0353 - IVIAIIN I EINANCE/MAINT |
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| 477 | | | 114 | D62/G540 - MAINTENANCE/MAINT |
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| 325 | | | 686 | D61/G580 - PRH MAINT CREW/UNIT 2 |
| OCOT | | | 925 | D61/G560 - PRH MAINT CREW/UNIT 2 |
| 1000 | | | 1030 | D61/G550 - PRH MAINT CREW/BR |
| 1307 | | | 1397 | Db1/634U - PKH MAINT CREW/BR |
| 88 | | | 884 | DBI/GS2U - PKH MAINT CREW/UNIT 2 |
| 2238 | | | 2238 | U01/G31U - PKH MAINT CREW/UNIT 2 |
| 966 | | | 966 | D38/G/2U - BRIDGES/MAINT |
| 231 | | | 231 | COOL COOL - LASALLE FINI IN INC. |
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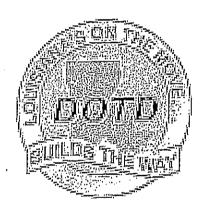
Date Range: January 1, 2018 to December 31, 2018

Appendix L

Agile Assets System

LaGov Linear Assets (Agile)

Users Guide



LaDOTD

Maintenance System Management
Section 42

June 2014

TABLE OF CONTENTS

| LOGGING IN TO AGILE | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
|--|--|
| HELP | |
| ADD / REMOVE QUICKLINKS | |
| SHORTLIST | |
| WORK REQUEST | |
| Creating Work Request | 5-8 |
| Linking Work Request to another Work Request | |
| Removing Link from Work Request | |
| Classical Parasit Parasit | 11 |
| Show Work Request Report | 12 |
| Delete a Work Request | |
| CREW | 10.14 |
| Creating Crews | |
| Edit / Delete Crew | 15 |
| WORK ORDERS | |
| Creating a Work Order | 16-19 |
| Assigning Resources to Work Orders | 20-22 |
| Cost+Acc+Contracts Tab | |
| Inventory Items Tab | |
| Making Daycards | |
| Editing Account Codes (WBS) | |
| Editing Work Orders | |
| Approving Daycards | |
| | |
| Disapproving Daycards | |
| Deleting Work Orders | ······································ |

ATTACHMENTS

| Working with Attachments | 41 |
|--|----------------|
| To Insert a File | |
| To Move Up or Move Down Files | |
| To Edit or Update an Attachment | |
| To Delete an Attachment | |
| Completing Work Orders | |
| IDEAL MIX | 49 |
| DAILY LOG | 50-52 |
| SCHEDULING | 53-58 |
| TIMESHEETS | 59-62 |
| PDA | 0,00 |
| Logging on PDA | 63 |
| Downloading Work Orders to PDA | |
| Creating a Work Order from the PDA | |
| Updating an Existing Work Order on the PDA | |
| Uploading Work Orders from PDA | |
| REPORTS | , 0 |
| Creating Reports | 7~84 |
| Putting Reports on Dashboard8 | |
| Sharing Reports8 | |
| Stop Sharing a Report | |
| Make a Report Private | |
| Make a Private Report Public92 | |
| Delete Private Reports | |
| Copy a Report | •• > |

INTRODUCTION

This guide provides step by step processes on using the menus and windows to access, manage and retrieve the asset data. This system comprises of 4 main modules and contains an extensive collection of asset data that can be retrieved easily.

The Linear Asset Management System is a versatile system that can be used from any computer with a browser and an internet connection.

However, for a better experience, it is recommended to have the following settings. These settings are only recommendations and do not imply that your experience will not be satisfactory if you use different settings.

| Settings | Description |
|-------------------|------------------------------|
| Browser | Internet Explorer 6 or above |
| | Firefox 3.0 or above |
| | Safari 3 or above |
| Screen Resolution | 1024 x 768 |
| Operating System | Windows XP SP2 or better |
| Memory | Windows 7: 1GB minimum |
| | Windows XP: 512MB minimum |
| | Windows Vista: 1GB minimum |

This Guide was produced to assist you with your day to day work functions, if you would like to use the LaGov help scripts they are available from the DOTD's Intranet. Use the menu path below to begin:

DOTD Intranet / DOTD's LaGov Information Site / LaGov Help (Self-service) / LaGov ERP / LINEAR ASSETS

LOGGING IN TO AGILE

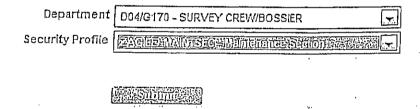
To Access the LEO Portal directly

- 1. Connect to the Internet
- 2. Type https://leo.doa.louisiana.gov/irj/portal and press Enter.

 OR

 From louisiana.gov (http://www.louisiana.gov/) under LEO: Louisiana State

 Employees Online Online Services click the link
- 3. Enter your User ID (e.g. P00123456).
- 4. Enter current Password.
- 5. Click Log on
- 6. LaGov ERP ERP / LEO Home page is displayed.
- 7. Click Click located at the top of the screen.
- 8. This will bring you to the Department and Security Profile



- 9. If you over see more than one Administration Unit, select the one you want to log in under the "Department" field. Check your Security Profile is correct and click submit.
- 10. You have successfully logged in.

Appendix M

Hydraulics Manual Supplement



DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

INTRADEPARTMENTAL CORRESPONDENCE

HYDRAULICS OFFICE (225)379-1306

MEMORANDUM

TO:

ROAD DESIGN SECTION BRIDGE DESIGN SECTION CONSTRUCTION SECTION DISTRICT ADMINISTRATORS DISTRICT DESIGN OFFICES

ENVIRONMENTAL SECTION

PROJECT MANAGEMENT SECTION

FROM: Steve Lee, P. E.

Hydraulics Engineer Administrator

DATE: November 1, 2007

SUBJECT: DESIGN POLICY ON EROSION CONTROL

The attached documents are a re-issuance of LADOTD's Design Policy on Erosion Control with minor changes. An additional example has been added to the documentation. Also, the section entitled "Plan Checking & Design Procedures for Erosion and Sediment Control on LADOTD N/LPDES Permitted Project" was to be included in the Hydraulics Manual, and it is labeled as such; however, this information will not be included in the Hydraulics Manual as the Design Policy on Erosion Control is being updated periodically to correspond with changes in EPA and DEQ policy.

Further information can be obtained by contacting Sarah Golz in the Hydraulics Section at (225) 379-1430.

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AN EQUAL OPPORTUNITY EMPLOYER A DRUG FREE WORKPLACE

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ROAD DESIGN

EROSION CONTROL GUIDELINES

HYDRAULICS UNIT

PLAN CHECKING AND DESIGN PROCEDURES FOR EROSION & SEDIMENT CONTROL

SUPPLEMENT TO HYDRAULICS MANUAL

PLAN CHECKING & DESIGN PROCEDURES FOR EROSION & SEDIMENT CONTROL ON LA DOTD N/LPDES PERMITTED PROJECTS

This document pertains to those projects which fall under Phase I and Phase II of Louisiana's Pollutant Discharge Elimination System permitting program. The program applies to all construction projects disturbing one acre or greater of land as of March 2003.

Plan checking and design procedures on the use of erosion and sediment controls are to be followed according to the <u>Roadway Design Procedures and Details Manual (RDM)</u> with few exceptions as shown herein. A reference is made to section 4.5.2 of this manual and Standard Plan EC-01. Temporary erosion controls should be shown on the plan and construction sequence sheets, or on separate sheets altogether. This is a revision to section 8.2.5(h) of the RDM. Where many controls are required such that they would clutter the plans, the controls should instead, be listed in tables on summary sheets. Temporary erosion control symbols should be included as part of a plan symbol legend. Structural controls should have details for their installation included within the plans. Examples of structural (i. e., sediment) controls are silt fencing, sediment basins, check dams, etc. See Standard Plan EC-01. New products are continuously being developed to aid in erosion and sediment control. Products equivalent to the traditional ones mentioned in this document are acceptable as approved by the LADOTD.

Plan preparation procedures for separate, temporary erosion control sheets are also included. They should follow similar procedures to those discussed below for showing controls within the traditional plan set. The guidelines and procedures listed below are used to supplement, and may supersede, the RDM and Standard Plan EC-01.

PRELIMINARY DESIGN/PLAN CHECK

Roadside, median, and temporary ditches should have hay/straw or stone (or equivalent material) check dams placed in them. There are many options for the temporary stabilization of ditches. Construction personnel are allowed to make adjustments for field conditions. As a guideline, check dams should only be used in channels with a contributing drainage area of 10 acres or less. Additionally, they should only be placed in channels having a 10% grade or less, and where the depth of flow is not expected to exceed one (1) foot. Use hay or straw baled check dams where the maximum contributing drainage area is 2 acres. Use stone check dams where the drainage area is between 2 and 10 acres. (It will not be necessary to show such drainage areas on the Design Drainage Map.) The maximum spacing between dams should be such that the toe of the upstream dam is at the same elevation as the top of the downstream dam.

Check dams range from 1% ft. to 3 ft. in height, depending on the channel cross-section or depth of flow. The height should be equal to the top of the lower channel bank or to the depth of anticipated flow, whichever is lower, with a minimum of 1% ft. The center of the dam should be at least 6 inches lower than the height (outer edges). The bottom length should be three times the height (3 x h).

On bridge construction and replacement jobs, silt fencing (or an equivalent product) should be specified near the toe of the banks, parallel to the waterway and between the right-of-way limits on either side of the bridge. Roadside channels on either side of the bridge should have either check dams or bridge/erosion drain pipes (ditch blocks) to help slow channel velocity from any runoff during the time of construction, when the bridge embankment is vulnerable to erosion. Silt fencing and check dams used here can be shown on either the plan or bridge general plan sheets. (Refer to section 5.2.4 of the RDM and Chapter I of the Hydraulics Manual for design details pertaining to ditch blocks.)

Existing catch basins (both curb & open-top inlet types) that are to remain on a project should have some form of silt protection. Traditionally, this has been accomplished with either silt fence or hay/straw bales and thus, accounted for in a (204) pay item. Rock or stone barriers are also acceptable as long as they are properly installed. Because drainage work is performed early in the construction period, proposed catch basins should also have inlet protection.

Permanent erosion control at the outlets of cross drain structures should be noted on the preliminary plans (section 8.2.5(5.b) of the RDM).

(This paragraph reserved for future design guidelines pertaining to detention/sediment basins.)

FINAL DESIGN/PLAN CHECK

Standard Plan EC-01 should be included in the final plan set.

Silt fencing is used to minimize the amount of sediment leaving the construction site and/or entering water ways. It is also used to decrease the velocity of sheet flows. Silt fencing should be shown on the plans along areas of disturbance sloping away from the project site or towards adjacent, naturally existing water ways. It should not cross entrance and drainage ways. Disturbed areas typically extend fifteen (15) feet outside the limits of construction or to the limits of right-of-way, whichever is less. A look at the existing cross-sections will indicate slopes during clearing and grubbing operations. On urban projects where fore slopes are toward the roadway and inlet protection is specified, silt fence will likely not be necessary. The estimated quantity for silt fencing should take these and other situations into consideration. Silt fencing that coincides with the right-of-way should be indicated with an arrow and note at least once per plan sheet. At other locations, silt fencing should be indicated with the appropriate symbol at least once per plan sheet. Summary tables are now not required for silt fencing, since the plans can better indicate locations.

Show temporary slope (embankment) drains on the plans to carry storm water from the work area down unprotected long (greater than 100 ft.) and/or steep (greater than 2:1) slopes. Slope drains are typically only necessary on large, embankment moving projects. Earthen berms directing water into the pipe inlets should also be shown on the plans (see Std. Plan EC-01) unless the slope drains are included in a summary table(s).

Permanent erosion controls (i. e., seeding, mulching, rip-rap, erosion control systems, etc.), if not indicated on plan or profile sheets, should be tabulated in summary tables. This is a slight modification of Section 8.2.5(h) of the RDM. Locations (i. e., to and from stationing, and Lt., Rt., or Med. of roadway) and type (i. e., vegetative mulch, Type A covering, 30-lb rip-rap class, etc.) should be clearly indicated. (Refer to the Hydraulics office for design procedures pertaining to channel protection and rip-rap sizing/placement.) Erosion control coverings should be shown on either the profile sheets or listed in a summary table(s). They are used for either slope or channel protection, and should be labeled as such. Temporary check dams should still be placed in channels requiring covering until vegetation is established and the dams can be removed. The quantity for temporary seeding in these areas will be computed as specified in the appendix of the Road Design Manual under Miscellaneous Design Aids, *Rules Associated with Pay Items*. Rip-rap used at bridge abutments should be indicated on the bridge general plan sheets.

Pay items for temporary erosion controls should be included on the Summary of Estimated Quantities sheets. These include such items as temporary silt fencing and temporary slope drains (204-). Though not necessarily shown within the plans, at least two (2) items for temporary stone construction entrances should also be included on the Summary of Estimated Quantities sheets. Design aids for estimating temporary erosion control quantities are provided in the appendix of the Road Design Manual under Miscellaneous Design Aids, Rules Associated with Pay Items.

Pay items for permanent erosion controls should be included on the *Summary of Estimated Quantities* sheets. These include such items as fertilizing (718-01) and seeding (717-01), landscaping (719-), erosion control systems (720-), riprap used as outlet protection for cross drains and at bridge abutments (711), and others in the 700-no. category. Fertilizing and seeding limits are usually indicated on the typical section sheets (section 8.2.3(6) of the RDM). Permanent erosion controls can be used in place of temporary controls if placed early enough, and may share pay item numbers. Design aids for estimating permanent erosion control quantities are provided in the appendix of the Road Design Manual under Miscellaneous Design Aids, *Rules Associated with Pay Items*.

SEQUENCE OF CONSTRUCTION

Temporary erosion and sediment controls are usually installed during the first phase of construction, before the land is disturbed. In fact, storm water permit coverage starts from the commencement of construction activities until final project stabilization. Temporary structural controls must be removed whenever they are no longer necessary in serving their purpose, or when the protected area has been stabilized through the use of seeding and mulching, erosion control blankets, rip-rap, or other means. The installation and removal of controls and practices used to control erosion (BMPs) should be indicated on construction sequencing sheets. Below are guidelines for the sequencing of erosion controls and BMPs on LA DOTD state projects:

Silt fencing should be installed before clearing and grubbing operations begin, except when clearing involves installing the fence. Typically, this would be performed in the first stage of phase one of construction. It should be removed once the upslope area being protected has been stabilized. On bridge construction jobs over water ways, silt fencing should be installed before ground-breaking activities begin. On bridge replacement jobs over water ways, it should be installed prior to existing bridge removal and detour bridge construction (if applicable). In the case of both bridge construction and replacement jobs, it can be removed once the bridges and abutment protection are in place.

Slope drains and their temporary earth berms should be installed after clearing and grubbing and grading of the embankment slope has occurred. It should be removed only when the disturbed slope upon which it rests has been stabilized. This should be before roadway base work begins.

Check dams should be installed immediately after the channel is brought to grade, and should be removed only after the upslope channel for which they serve has been stabilized. Check dams in roadside channels near bridges should be placed before ground-breaking activities begin, or after ditch grading (if applicable). They should be removed after the installation of any bridge/erosion drain pipes (ditch blocks), or after the upslope channel for which they serve has been stabilized. Check dams should be tabulated in summary sheets indicating their locations by stationing. Where only a few dams are required, they can instead, be indicated on the sequence of construction sheets with a symbol, at a minimum scale of 1:1000 or 1" = 80'.

Protection for existing drainage inlets remaining onsite should be fully installed before clearing and grubbing operations begin in the area. Protection for proposed drainage inlets should be installed immediately after the new inlets are in place. In both cases, they should not be removed until the upslope area for which they serve has been stabilized. Inlet protections should typically be the last erosion controls removed from a site. They can be indicated on the sequence of construction sheets with a symbol, at a minimum scale of 1:1000 or 1" = 80'. Protection for many catch basins as part of subsurface drainage systems should instead, be listed in a summary table(s).

Temporary seeding, if necessary prior to permanent seeding, occurs after clearing, grubbing and grading operations. The limits are the same as that indicated on the typical section sheets for permanent seeding, and need not be shown elsewhere. A note on the sequence of construction sheets will suffice.

Erosion controls shown on the plan sheets reflect their <u>initial placement</u>. During construction, some controls may need to change location based upon grade changes required to form the typical sections and based upon the location of detour roads. No additional payment will be made for the moving of erosion control devices at different sequences of construction. The former statement should be included in the notes of the construction sequence sheets.

Below is a reference table summarizing where erosion and sediment controls should be incorporated into the plan set.

| E & S Control | Location in plan set | Include in summary tables? |
|--|---|---|
| Silt fence | plan, bridge general plan sheets | Not required |
| Slope drains | plan sheets | Yes, if not on plan sheets |
| Check dams | construction sequence sheets | Yes, if not on construction sequence sheets |
| Inlet protection | construction sequence sheets | Yes, if not on construction sequence sheets |
| Stone construction entrances | construction sequence sheets, if location known | No |
| Seeding, fertilizing, mulching & sodding (temporary & permanent) | typical section sheets | No |
| Erosion control systems | profile sheets | Yes, if not on profile sheets |
| Rip-rap (permanent) | plan, bridge general plan sheets | Yes, if used for channel lining |

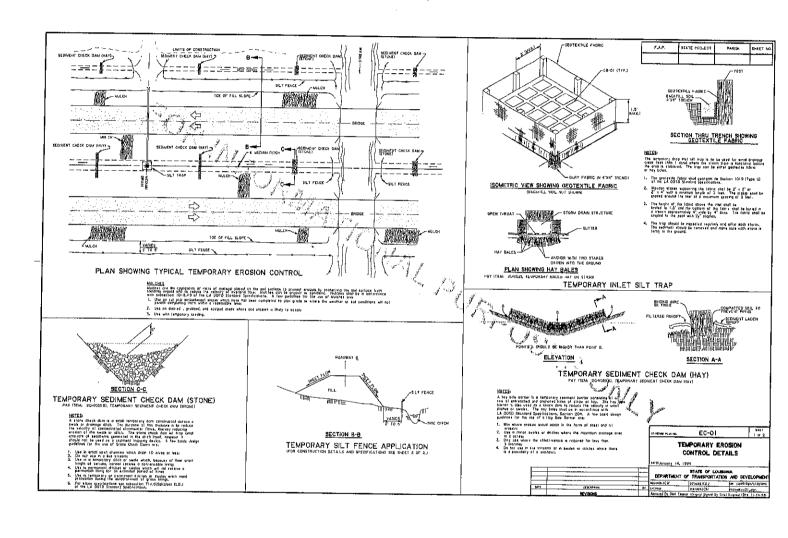
TEMPORARY EROSION AND SEDIMENT CONTROL SHEETS

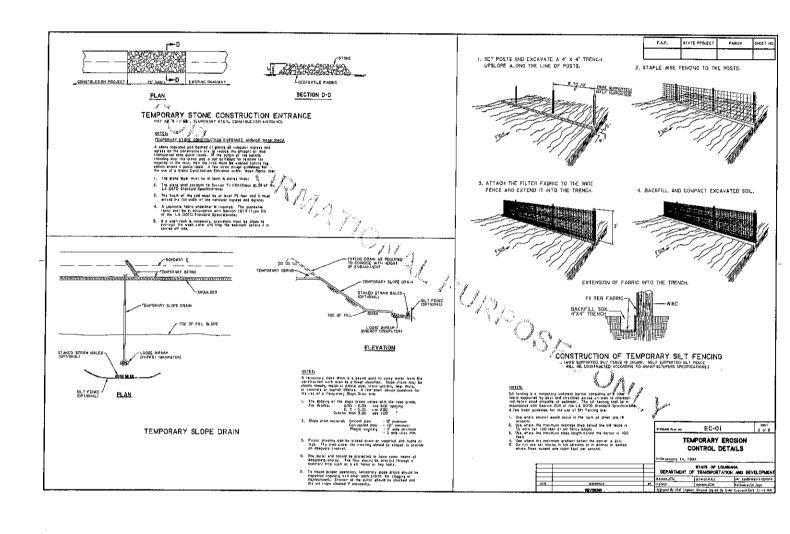
The designer has the option of placing temporary erosion and sediment control measures on separate sheets. These should consist of layout sheets (similar to a construction sequence sheet) at a minimum scale of 1:000 or 1"= 80'. Layout sheets should indicate drainage patterns and, like the construction sequence sheets, a description of the phasing in of practices and controls. Temporary erosion control symbols should be included as part of a plan symbol legend on these sheets, and may include part or all of the construction legend to illustrate sequencing with roadway construction.

Where many controls are required such that may clutter these sheets, the controls should instead, be listed in tables on summary sheets, as mentioned previously. Permanent erosion controls should be shown on the appropriate sheets within the traditional plan set. They should be placed as soon as practical after clearing, grubbing, grading operations and if appropriate, after drainage installations.

Appendix N

Standard Plan EC-O1, Temporary Erosion Control Details



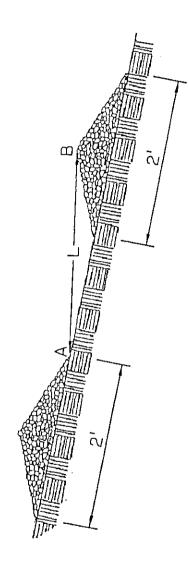


TEMPORARY EROSION & Sediment control symbology

| SFSF | ונונונונונונונונונונונו | 07#407#G | | ভিয়ভ্যভ্যভ্যভ্য | | |
|------------|-------------------------|----------------------------|-------------------------------------|--|------------------|-----------------------|
| SILT FENCE | TEMPORARY BERM | SEDIMENT CHECK DAM (STONE) | STABILIZED CONSTRUCTION ENTRANCE | HAY BALES OR SEDIMENT CHECK DAM (HAY) | INLET PROTECTION | TEMPORARY SLOPE DRAIN |

SPACING BETWEEN CHECK DAMS.

L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION



Appendix O

Plan in Hand Memorandum Review Form

PLAN-IN-HAND MEMORANDUM REVIEW

| DISTRICT NO.: | P. | /H INSPECTION MAD | E ON: |
|---------------|-------|-------------------|---------|
| S.P. NO.: | ROI | JTE NO.: | .* |
| F.A.P. NO.: | PAF | RISH: | |
| N'AME: | | | |
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| NAME | TITLE | AGENCY | SECTION |
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PLAN-IN-HAND INSPECTION REPORT

| • | | YE. | 2 N | 0 | COMMENTS |
|----|--|----------|----------------|---|----------|
| - | TYPICAL SECTION SHEETS: | | | | |
| | 1. Is the District in agreement with the proposed pavement types? | | | | |
| | SUMMARY SHEET: | <u> </u> | L | | |
| | I. Will an item for cleaning of existing ditches be required? | | | | |
| 2 | . What types of temporary erosion control items will be required? | | · · <u>. ·</u> | | |
| 3. | How many construction entrances will be required? | | | | |
| 4. | Is the method of payment for removal of pavement satisfactory? | | | | |
| 5. | Will temporary maintenance aggregate be required? If so, how much? | | | | |
| 6. | Will granular material be required for backfill? | | - - | | |
| 7. | ls the method of payment for earthwork satisfactory? | | | | |
| | Are special erosion control items necessary? | | | | |
| | Will an item for muck excavation be required? | | | | |

YES NO COMMENTS

| | | X 1 | <u> </u> | NO | COMMENTS |
|---------|--|-----|---------------|----|----------|
| | PLAN PROFILE SHEETS: | | | | |
| | Is adequate right-of-way provide for relocation of utilities? | d | | | |
| | 2. Will any right-of-entry agreements be required? Is this satisfactory? Who will secure it? | | | | |
| | 3. Will construction be impacted by existing horizontal or vertical clearance? | | | | |
| 4. | Is adequate outfall information shown? | | | | · |
| 5. | Has sufficient drainage excavation and/or cleaning of outfall laterals necessary for adequate drainage been shown? | | | | |
| 6. | Will cleaning be required for existing drainage structures? | | - | | |
| 7. | Will special ditch protection items be required? | | | | |
| 8. | Will any underdrains be required? | | | | |
| 9. | If retaining walls are necessary, will they be cast in place or mechanically stabilized? | | - | • | |
| 10. | Are there any oil or gas wells on the project that do not show up on the plans? | | | | |

| | | YES | NO | COMMENTS |
|----|---|-----|----|----------|
| | 11. Are there any noticeable encroachments on the right-of-way? Are existing improvements within 50' of required right-of-way shown on the plans? | | | |
| | 12. Any potential hazardous waste site/ust? | | | |
|] | 13. Will construction or drainage servitude be required? | | . | |
| _G | SEOMETRIC DETAILS: | | | |
| 1. | Are there any areas where improvements can be made to the alignment? | | | |
| SI | EQUENCE OF CONSTRUCTION: | | | |
| 1. | ls through traffic to be maintained? | | | |
| 2. | For local traffic only, will school buses, mail carriers, or other local traffic require special maintenance of traffic provisions? | | | 1 |
| 3. | If temporary sheeting is required to maintain traffic, is the method of payment satisfactory? | | | |
| 4. | Does the detour limits exceed the limits of roadway improvements? | | | |
| 5. | Can detours be built due to grade difference between new and existing roadways? | | | |
| | · · · · · · · · · · · · · · · · · · · | L | | |

| | | | | YE_{i} | S | NO | COMMENTS |
|----|--------------------|--|----|----------|---------------|----|----------|
| , | 6. | Check for conflicts between ne roadway and existing roadway being used to maintain traffic. | w | | | | · |
| | 7. | Method of payment for detour (| ir | | | | |
| | 8. | Can drainage be maintained during construction? | | | 1 | | |
| | GEN) | ERAL: | | | <u>L</u> | | |
| | 1. | If sub-surface drainage is being used, is there any evidence of effluent sewerage entering existing roadside ditches? | | · | | | |
| 2. | - | Are all utilities shown? Pipelines shown in profiles, if applicable? | | | | | |
| 3. |] | Have 60% comments been received from the District? | | | · - ·· | | - |
| 4. | ,A C(| are there any major utility onflicts? | | | | | |
| 5. | .co | re there any major right-of-way | | | | | • |
| 6. | ini (ini ove | ill sawed joints be required for its of pavement removals cluding walks, drives, crossers etc.)? If yes, is the method payment satisfactory? | | | | | |
| 7. | TI 2C | l any materials be salvaged? o, where should this material auled? | | | | | |
| | | | | L | | | |

| 9. | Is there any extra-ordinary maintenance problems or procedures anticipated as a result of the proposed project? Is a clearing and grubbing project recommended? Will surcharging the embankment be required? Are there any proposed permit requests that will affect this project? (404, NW, | | S N | | COMENTS |
|---------------|---|--------|----------------|-------------|------------|
| 10. | Is a clearing and grubbing project recommended? Will surcharging the embankment be required? Are there any proposed permit requests that will affect this | | | | |
| | Are there any proposed permit requests that will affect this | | | - | |
| 11. | requests that will affect this | | | - 1 | |
| | | | | | |
| 12. | Are the drainage and construction servitude large enough for equipment mobilization? | | | | |
|] | If this project creates any additional mileage for our system has Planning been notified for potential exchange with cooperating agency? | | | | |
| e: | Do any recommended changes exceed the original scope of the project? | | | | |
| þr | ooes the limit/scope of the oject match those in the ovironmental document? | | | | |
| l6. Ar tha | re there any mitigation items at need to be addressed in plan velopment? | | | • | |
| List belo | ow any.comments or recommendation | s conc | emin, | g th | e roadway. |
| | | | · - | | |

YES NO COMMENTS

| | BRIDGEPLANS | | | COMMENT | |
|--------------|--|----------------------|-------------|---------|---|
| - | Is stationing of beg of existing bridge s | inning and end hown? | | | |
| . | 2. Is description of ex shown? | sting bridge | | | |
| 3 | 3. Is high water ejevati | on shown? | | | |
| 4. | . Is drainage area shov | /n? | | | |
| 5. | ls required area of open | ening · | | | |
| 6. | Is stream navigable eit or local usage? | her by law | | | |
| 7. | Is a U.S.G.S. report recommended? | | | | |
| 8. | Have recommended chached changes been shown? | nnel | | | |
| 9. | Is the stream meander sh within right of way and/o where necessary? | own or beyond | | | , |
| 10. | Is sufficient right of way at each structure? | shown | | | |
| 11. | Is detour required? If yes has the location, type, lend width, area of opening, sure and other details been shown. | gth, | | | |

| , | | YES | ΝО | COMMENTS |
|---------------|--|-----|----|----------|
| 12. | ls stream subject to drift? | | | |
| 13. | ls stream subject to scour? | | | |
| 14. | Will revetments be required? If yes, has the type, location and other details been shown? | | | • |
| 15. | Is drainage excavation required? | | | |
| 16. | Are pile design loads and type shown? | | | |
| 17. | Have the borings been reviewed and approved? | | | |
| 18. | Have location of test pile(s) been marked on the P/H prints? | | | |
| 19. | Is the use of drilled shafts indicated? | | | |
| v | Are there any utility lines that will interfere with pile driving operations and have they been shown on the P/H prints? | | • | |
| tn Io | re all utilities that may affect e construction accurately cated and details on the P/H ints? | | | |
| ls: | there a need for vibration onitoring and site surveys? | | | |

| | | YES | NO | COMMENTS |
|--------------|--|-----|----|----------|
| 23. | Are the location of expansion and fixed ends shown and are they satisfactory? | | | |
| 24. | Are controlling vertical and horizontal dimensions shown? | | | |
| 25. | Is the superstructure cross section satisfactory? | | | |
| 6. '. Lis | The length of permanent piles is to be Borings: Test Piles: Record of Existing Structure: t below any comments or recommenda | | | |
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| List i | | | | |
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List general remarks, comments and/or recommendations below:

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| | Section: | |

VALUE ENGINEERING

| Are there any items that are candidates for value engineering? | Yes‡ | No | N/A |
|--|------|-------------|-----|
| *If yes, please comment below | | | |
| REMARKS: | | | |
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| ue Engineering Team Members: | • | | |
| ect Coordinator - VA Area Engineer - | | | |
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Appendix P

SPC Questionnaire

Spill Prevention and Control Plan (SPC) Questionnaire

| Fa | cility Information: |
|--------|--|
| Fac | cility Name: |
| Ad | dress: |
| Fac | ility Operator: |
| Faci | lity Description (e.g. maintenance unit, storage yard, etc.): |
| (Ple | ase mark answers with an (X).) Operations at your facility begin before August 16, 2002: YES NO |
| | mation on Aboveground Storage Containers: |
| 1. | Does your facility have any SINGLE aboveground storage containers with a capacity of 660 gallons of oil or other chemicals: YES \(\subseteq \text{NO} \subseteq \) |
| 2. | Does your facility have multiple containers with a TOTAL aboveground storage capacity greater than 1,320 gallons of oil or other chemicals: YES NO |
| 3. | Do the aboveground containers have secondary containment: YES [] NO [] |
| 4. | Oils stored in these aboveground containers: (Please mark all that apply.) a. Petroleum b. Fuel Oil c. Sludge d. Vegetable Oils e. Other Oils & Greases f. Oil Refuse g. Oil with Wastes Other than Dredged Spoil h. Fats, Oil or Greases of Animal, Fish, or Marine Mammal Origin (including Synthetic Oils and Mineral Oils) |
| 5. | Please list any chemicals, other than oils, stored in aboveground storage tanks at your facility: |
| | |

| | defing geographic location, in the event of a release, could your facility rge oil or other chemicals into any: e mark all that apply.) |
|--|---|
| b. Por c. Stor d. Wet e. Muc f. Sand | eams [] ads and Ditches [] am or Sanitary Sewers [] allands [] alflats [] afflats [] ar Navigable Waters [] |
| 7. Please lis chemical | st the nearest potential receiving waters in case of an oil or other spill: |
| a | |
| b | |
| C | |
| 8. Does your in place: (Please ma | facility have any of the following spill prevention measures already |
| b. Curbing c. Culverts d. Weirs, B e. Spill Div f. Retention g Sorbent S h. Sumps an i. Additiona j. Liquid Le | Berms, or Retaining Walls Sufficiently Impervious to Contain Oil Drip Pans Gutters or Other Drainage Systems coms or Other Barriers ersion Ponds Ponds Cubstances d Collection Systems I Tanks to Automatically Receive Overflow vel Sensing Devices |
| *Please complete and em 2010.* | ail form to <u>Nicholas.Larks@la.gov</u> by Monday, November I, |

Appendix Q

Project Delivery Manual Excerpts

Compliance with Post-Construction Environmental Commitments

In some instances, the Department will agree to post-construction environmental actions or monitoring for a limited period as a condition of a regulatory agency permit or commitment to a community. Examples of such agreements include post-construction erosion control, maintaining vegetation installed for mitigation purposes, monitoring water quality in an adjacent stream, or monitoring traffic following construction to determine if a particular traffic control device, such as a signal, is warranted.

In many instances, the Area Engineer will be the official charged with ensuring compliance with post-construction environmental commitments. However, in some instances, it may be the District Traffic Engineer or the Environmental Section. The Project Engineer is responsible for notifying the appropriate official(s) when construction has been completed and explaining the nature of post-construction environmental commitments, should they exist. The ADA of Operations will be kept informed of any significant related issues and will become involved in the process as needed to ensure conformity with all applicable regulations and commitments.

At the conclusion of the commitment, the official charged with compliance should notify the Environmental Section that the commitment has been fulfilled. The Environmental Section will in turn notify the appropriate regulatory agency or community officials.

Materials Durability and Performance Monitoring

The Department maintains an approved products list from which a contractor may select materials for use on state highway construction projects. Following construction, field monitoring of the durability and performance of these materials would obviously benefit the Department. The Materials and Testing Section should be advised of any materials that do not appear to perform well. The Material and Testing Section may in turn refer the matter to the New Products Evaluation Committee for consideration of removal of the product from the approved products list. Reference is made to EDSM Number V.4.1.1: "New Products Evaluation Committee."

Identification of Design Features that Complicate Maintenance Activities

During the design of a project, insufficient consideration of post-construction facility maintenance can result in difficulties and inefficiencies in maintenance operations. Maintenance personnel must identify and document any design features that complicate maintenance activities, and share this information with the appropriate design section(s). Through such a process, standard plans and details can be modified to facilitate maintenance activities and improve the Department's overall performance.

2/4/2014

DOTD Project Delivery Manual Chapter 10: Stage 6 Operating Procedures 2013 Louisiana Department of Transportation and Development

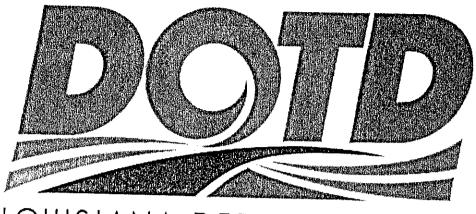
[102]

Responsibility Matrix

| STAGE 6 – SYSTEM OPERATIONS AND PERFORMANCE RESPONSIBILITY MATRIX | | |
|--|--|--|
| FUNCTION | RESPONSIBLE | |
| Disposal of excess right-of-way | District Maintenance Section, District Design Section, Real Estate Section | |
| Documentation of utilities permitted on the right-of-way | District Utilities Specialist with the District Permits Unit | |
| Compliance with post-construction environmental commitments | District Maintenance Section, District Traffic Engineering Section, Environmental Section (depends on nature of commitment), Area Engineer | |
| Materials durability and performance monitoring | District Maintenance Section, District Traffic Engineering Section, Area Engineer | |
| Identification of design features that complicate maintenance activities | District Maintenance Section, Area Engineer | |
| Project Closeout Meeting | Design Engineer | |

Appendix R

Master SWPPP Template



LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

STORM

WATER

POLLUTION

PREVENTION

PLAN

Storm Water Pollution Prevention Plan (SWPPP)

| Permit Number: LAR 600000 | · |
|---------------------------|---|
| Prepared For: | |
| Project Name & Location: | *************************************** |
| | |
| Prepared by: | |
| Date: | |
| | |

This Storm Water Pollution Prevention Plan (SWPPP) is provided by the Louisiana Department of Environmental Quality (LDEQ) Business and Community Outreach/Small Business Assistance Division (BCO/SBA). LDEQ BCO/SBA technical services are provided courtesy of LDEQ. Providing this document does not certify that the information is complete or complies with all requirements. The BCO/SBA claims no responsibility for omissions or inaccuracies in values or information presented to the LDEQ Administrative Authority by businesses seeking compliance with state environmental regulations. The LDEQ Administrative Authority alone determines when compliance is achieved; and, businesses are ultimately responsible for satisfying all requirements of such Authority

CERTIFICATIONS

To Be Completed by Construction Site Operator (Plans and Specifications Operational Control)

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for attesting to false information, including the possibility of fine and imprisonment for knowing violations."

| Name and Title | Telephone Number |
|---|--|
| Signature | Date |
| "I certify under penalty of law that this document | enstruction Site Operator erational Control) |
| my direction or supervision in accordance with personnel properly gather and evaluate the inf of the person or persons who manage the syst for gathering the information, the information s and belief, true, accurate, and complete. I am for attesting to false information, including the p knowing violations." | formation submitted. Based on my inquiry tem, or those persons directly responsible ubmitted is, to the best of my knowledge |
| Name and Title | Telephone Number |
| Signature | Date |

SWPPP Revision Documentation Form

This storm water pollution prevention plan (SWPPP) should be revised and updated to address changes in site conditions, new or revised government regulations, and additional on-site storm water pollution controls. The signature of this representative attests that the SWPPP revision information is true and accurate. Previous authors and facility representatives are not responsible for the revisions.

| Number | Date | Company Representative's Signature |
|--------|------|---------------------------------------|
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CONTENTS

| 5.0 SITE OR PROJECT DESCRIPTION 5.1 Description of Construction Activity & Environmental Impacts 5.2 Construction Activity with Potential Pollutant Sources 5.3 Major Activities Schedule 5.4 Property Acreage 5.5 Construction Activity Acreage 5.6 Soil Data 5.7 General Location Map and Site Map 5.8 Erosion and Sediment Control Site Map 6.9 Industrial Discharges 5.10 Receiving Waters 5.11 LPDES Construction General Permit, | | 1.0 CONTACT INFORMATION 2.0 OBJECTIVE 3.0 NON-STORM WATER DISCHARGES 4.0 SWP3 REVIEW AND AMENDMENTS 4.1 Review 4.2 Amendments |
|---|------|--|
| 6.2 Best Practicable Technology (BPT) 6.3 Site-specific Erosion and Sediment Controls 7.0 STABILIZATION PRACTICES 7.1 Deadline to Initiate Stabilization Measures 7.2 Deadline to Complete Installation of Stabilization Measures 7.3 Other Deadlines 7.4 Stabilization Records 8.0 STRUCTURAL CONTROLS 8.1 Structural Control Requirements 8.2 Site Structural Controls 9.0 STORM WATER MANAGEMENT 10.0 OTHER CONTROLS 10.1 Other Control Requirements | | 5.1 Description of Construction Activity & Environmental Impacts 5.2 Construction Activity with Potential Pollutant Sources 5.3 Major Activities Schedule 5.4 Property Acreage 5.5 Construction Activity Acreage 5.6 Soil Data 5.7 General Location Map and Site Map 5.8 Erosion and Sediment Control Site Map 5.9 Industrial Discharges 5.10 Receiving Waters 5.11 LPDES Construction General Permit, LAR600000 5.12 Threatened and/or Endangered Species 5.13 Historical Determination |
| 7.1 Deadline to Initiate Stabilization Measures 7.2 Deadline to Complete Installation of Stabilization Measures 7.3 Other Deadlines 7.4 Stabilization Records 8.0 STRUCTURAL CONTROLS 8.1 Structural Control Requirements 8.2 Site Structural Controls 9.0 STORM WATER MANAGEMENT 10.0 OTHER CONTROLS 10.1 Other Control Requirements | 6.0 | 6.2 Best Practicable Technology (PRT) |
| 8.1 Structural Control Requirements 8.2 Site Structural Controls 9.0 STORM WATER MANAGEMENT 10.0 OTHER CONTROLS 10.1 Other Control Requirements | 7.0 | 7.1 Deadline to Initiate Stabilization Measures 7.2 Deadline to Complete Installation of Stabilization Measures 7.3 Other Deadlines |
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| 10.1 Other Control Requirements | 9.0 | STORM WATER MANAGEMENT |
| | 10.0 | 10.1 Other Control Requirements |

- 11.0 APPROVED LOCAL PLAN
- 12.0 MAINTENANCE
- 13.0 INSPECTIONS OF CONTROLS
- 14.0 CONTRACTORS AND SUBCONTRACTORS RESPONSIBILITIES
- 15.0 UTILITY COMPANIES

APPENDICES

APPENDIX A, General Location Map and Site Map APPENDIX B, LPDES Storm Water Construction General Permit APPENDIX C, Site Information

- 1. General Description Sheet
- 2. Schedule Sheet for Soil Disturbing Activities
- 3. Soil Data Sheet
- 4. Erosion and Sediment Control Site Map
- 5. Erosion and Sediment Control Plan
- 6. Stabilization Practice Schedule
- 7. Structural Control Sheet
- 8. Construction Site Inspection Report

- 11.0 APPROVED LOCAL PLAN
- 12.0 MAINTENANCE
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